Class Schedule - Fall 2018

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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<tr>
<th>CRN</th>
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<th>Location</th>
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Credit Hours: 2 hours
Introduction to Artists Books
### This course will look broadly at the development of modern artists' book from a historical perspective by tracing important precursors (including William Blake, William Morris, the 17th century cut-up Little Gidding Harmony bible) but focusing primarily on modern and contemporary artists’ books. Our understanding of artists' books will be rooted in two distinct but sometimes overlapping frameworks: concept and craft. We will look at artists' books in the context of libraries, museums, and alternative art spaces. We will read texts ranging from established book historians to contemporary art critics, as well as reading and examining artists' books via digital facsimile.

Credit Hours: 4 hours
AV Materials Libs & Archives
All other students need department approval. Email ischool-advising@illinois.edu. ### As analog film, video, and audio materials and playback equipment become obsolete, libraries and archives with audiovisual (AV) materials in their collections face great challenges in preserving these materials. AV preservation and collection is costly, time-consuming, and requires specialized knowledge. This course will discuss the ways that librarians and archivists are responding to the challenges of audiovisual handling, preservation and collection. Laptop Required. [Elective course for Graduate Certificate in Special Collections]

Credit Hours: 4 hours
Business Analytics
All other students need department approval. Email ischool-advising@illinois.edu. ### 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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Credit Hours: 2 hours
Bookbinding: Hist, Princ, Prac
Restricted to students in the Information Sciences department.
All other students need department approval. Email ischool-advising@illinois.edu. ### 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 and virtual visits to Rare Book and Manuscript Rooms.
IS Class Materials $35.00 Flat Fee.

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<td>46 - Grad Sch of Lib &amp; Info Science</td>
<td>McDowell, K Turk, M</td>
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Data Science Storytelling
Restricted to students in the Information Sciences department.
MUST CHOOSE 2 or 4 Credit Hours. All other students need department approval. Email ischool-advising@illinois.edu. ### An introduction to understanding data as a source for storytelling and to telling stories based on data. This process will include understanding and analyzing data sets to find informative aspects, changes, or contrasts that will provide the basic information for developing stories. Course participants will learn storytelling concepts, narrative theories, and performance techniques and develop stories in a collaborative workshop style. Students will work with data visualization toolkits, which will involve variable levels of coding and skill. By using storytelling techniques with data, students can develop, and tell well-evidenced stories, organizations can make better data-driven decisions.

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Data Mining
Restricted to Graduate - Urbana-Champaign.
MUST CHOOSE either 2 or 4 Credit Hours. ### 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, & characterization; model fitting, selection, & evaluation; classification, clustering, & 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) & statistical modeling (to separate the signal from the noise). It draws heavily upon a variety of other disciplines including statistics, machine learning, operations research, & information retrieval. Will cover the major data mining concepts, principles, & techniques that every information scientist should know about. Lectures will introduce & discuss the major approaches to data mining; computer lab sessions coupled w/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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Data Mining
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<td>Data Visualization</td>
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<td>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.</td>
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<td>Data Warehousing and BI</td>
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<td>All other students need department approval. Email <a href="mailto:ischool-advising@illinois.edu">ischool-advising@illinois.edu</a>. 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.</td>
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<td>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.</td>
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<td>In-depth exploration of current topics in the rapidly changing world of e-resources management in libraries and information centers. Discusses trends, problems, and issues relating to how e-resources are reshaping the entire spectrum of library service. Example areas of focus include open access publishing, scholarly communication, proprietary as well as open source e-resources management systems, licensing and copyright issues, consortia, usage statistics, balancing e-resources with more traditional collections and services, and intellectual access challenges in a highly diffuse information environment.</td>
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Page 3 - Information Sciences, Fall 2018
### 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.

<table>
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Credit Hours: 2 hours
Grant Writing for Libraries
Restricted to students in the Information Sciences department.

### 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.

Credit Hours: 4 hours
Internet of Things & App for B
Restricted to students in the Information Sciences department.

All other students need department approval. Email ischool-advising@illinois.edu.

### [Internet of Things (IoT) and its Application for Business Data Analytics] Relying primarily on case studies, this course will help develop the students’ understanding of how the IoT enables Business Data Analytics. Lectures and readings will be focused on the impact to a company’s business model created by IoT data and analytics. Because of the disruptive nature of IoT sensors or data, IT Innovation will also be discussed. While the course will reflect a practitioner’s view, the material will be presented on a solid academic underpinning.

Credit Hours: 4 hours
Machine Learning Team Projects
Instructor Approval Required
Restricted to students in the Information Sciences department.

Prerequisites: Demonstrated ability and must have taken one of the following courses, IS 590-Data Mining, IS 590-Methods in Data Science, CS 412-Introduction to Data Mining, CS 446-Machine Learning. **Students must go to the link provided and complete the form to be considered for the course: https://forms.illinois.edu/sec/3772751**

In this course students will build upon their previously acquired skills in machine learning to undertake a variety of team-based project which apply appropriate machine learning techniques to one or more real-world datasets to gain useful actionable insights. Teams will also document their analyses and findings, explaining the strengths weaknesses and reliability of their approaches.

Credit Hours: 1 hours
Adv Tpcs-Mach Learn & Soc Comp

### Advanced Topics in Machine Learning and Social Computing: Open to all PhD students across campus. We focus on deep learning, generative adversarial networks, adversarial learning, word embedding, and selected current topics in AI, mainly responsible computing (especially biases in data and learning, fairness, and ethics). In this seminar, students discuss papers on these topics in depth, analyze the papers in the wider context of theories, methods, and findings from their fields, guide or lead discussions, and reflect on the discussed papers in the context of their own research. Exceptions can be made for advanced MS students who have a strong focus on research and as per their advisor's approval.

Credit Hours: 2 hours
Open Data Mashups
Restricted to students in the Information Sciences department.

### Data sharing & modern open data standards have been creating large repositories of data that remain disconnected. Many data science & machine learning techniques are boosted by incorporating data representing a variety of domains & granularities. Topics on data curation, data cleaning, copyright, web scraping, storage, processing & automation will be reviewed. This course seeks to explore techniques & perspectives of combining various data sources to create a dataset ready for analysis, but in a project oriented space so that each topic is synthesized with practice & experienced in context. Students will select a project area & explore the technical & conceptual requirements of that project space, eventually producing a proof of concept around it. All project domains & area are open, with the only requirement be that they combine several data sources into a new dataset. This course is meant for students who have completed at least two semesters of coursework, are comfortable with programming in Python (the project can be completed in any language, but instruction will be in Python), & desire a space to explore & develop a capstone or independent study project. However, further work on the project is not a requirement. Guest speakers & field experts from the University Library will be invited. Students will be encouraged to share & publish their datasets at the end of the semester. Prerequisites: IS452 or demonstrated programming Experience, 20 hrs of completed coursework.

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Credit Hours: 4 hours
Predictive Analysis in Finance
Restricted to students in the Information Sciences department.
Pre-requisites: (Must have one of the following) IS490RB, IS457 or IS590DT & must have coding experience. ### Building on the fundamentals introduced in IS490RB, this course introduces the R programming language, R Studio & the many packages relevant in solving real world business problems. The new skills in R & the previously developed abilities in Python will then be applied to common use cases in the financial industry to solve problems that are faced every day by data scientists working in the field. The course helps prepare students to identify the best approaches to a variety of technical challenges that they may face in their future careers. The students will come away from the class w/a working understanding of the common algorithms used by financial professionals, a confidence in the knowledge of which machine learning approaches are appropriate for which applications & experience working w/real, dirty data sets that they are going to encounter after graduation.

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Credit Hours: 4 hours
Progr Analytics & Data Process
Restricted to students in the Information Sciences department.
All other students need department approval. Email ischool-advising@illinois.edu. Prerequisite: LIS/IS452; or equivalent programming knowledge, w/consent of instructor. ### Building on the fundamentals introduced in LIS/IS452, this course adds skills, data structures, tools, & patterns needed for developing & modifying software to solve more complex problems & to improve code maintainability & reliability. These skills are relevant to many types of programming, but many scenarios used will involve data analysis, conversion, validation & 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 & more. Primarily uses the Python language.

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Credit Hours: 4 hours
Privacy in the Internet Age
Restricted to Graduate - Urbana-Champaign.
Open to graduate students campuswide. ### Description: This course will examine the notion of privacy in its historical context, and in relation to existing and projected information/communication technologies and institutional arrangements. Topics covered include the nature of "identity"; protecting personal data; technologies for personal identification, societal surveillance, and privacy enhancement; technologies for describing, monitoring, and controlling levels of privacy; changes in cultural, legal, and policy understandings of privacy and privacy rights; needs for and approaches to privacy protection in a variety of institutions and industries; security-privacy interactions and policy implications; and specific cases such as privacy implications of automated transportation systems, medical records, online behavior, Google Maps, information mining, trans-border data flow, credit card theft, etc.

Credit Hours: 2 hours
Reading Romance in the Library
Restricted to students in the Information Sciences department.
All other students need department approval. Email ischool-advising@illinois.edu. Prereq: Students should have completed or be concurrently enrolled in LIS/IS502 - Libraries, Information & Society. ### We will examine romance readers & reading from a library perspective. More specifically, we will investigate the tension between romance fiction's profound popularity & its frequent denigration. While we will explore the romance genre itself, we will situate our conversation in the institutional & ethical context of the library, primarily focusing on romance readers motivations, meaning-making practices & pleasures, on the one hand & the ways in which librarians perceive, portray, serve & sometimes criticize these readers on the other. Topics covered will include gender, taste, literacy & prof ethics. Students will also develop some requisite skills to effectively advise romance readers in the library, though this is not the focus of the course. No antecedent familiarity w/popular romance is required or expected.

Credit Hours: 2 hours
Social Justice in Youth Lit
Restricted to students in the Information Sciences department.
### 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).

Libr&Info Spanish Spking Ptnrs
Restricted to students in the Information Sciences department.
MUST CHOOSE 2 or 4 Credit Hours. All other students need department approval. Email ischool-advising@illinois.edu. Students are encouraged to try to attend the bookfair in Guadalajara, Mexico in order to use the bookfair as a laboratory for the courses final project (partial travel grants can be sought through ALAs Free Pass program; travel would begin Saturday or Sunday after Thanksgiving). Attendance at the bookfair is not required & students unable to travel will have alternate means of completing all assignments. Because this is a variable credit course with an optional trip, there are many different ways to complete the requirements for the course. ### Most librarians will at some point in their careers have the opportunity to work w/patrons who are seeking resources in Spanish. According to the US Census, 38.3 million Hispanics in the US speak Spanish at home, giving the US the 4th highest number of Spanish-speakers worldwide (Mexico has 120 million, Colombia 48 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. In this 8-week course, students will pick a type of library (public, community college, or academic) to use for their assignments. The
assignments will include answering reference or research queries, creating user guides & selecting Spanish-language materials to build a collection supporting their user population.

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| 68995       | Online   | Kovacs, D  | 06:30 PM - 08:30 PM | 4       | Credit Hours: 4 hours  
Web Design Construct Organizations  
Restricted to students in the Information Sciences department.  
All other students need department approval. Email ischool-advising@illinois.edu. 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. |
| 70546       | Online   | Trainor, K | 06:30 PM - 09:00 PM | 4       | Credit Hours: 4 hours  
Web Development Using Application Framework: A course in the use and evaluation of Web application frameworks for system architects, designers, and developers. Prerequisites: • Experience in creating static Web sites using HTML and CSS • Experience in Python programming (IS452 or equivalent) • Experience in creating dynamic Web sites using tools like PHP is helpful but not required. • Experience in using relational databases is helpful but not required. |
| 70867       | Independent Study | Smith, L    | ARRANGED - | 3       | Credit Hours: 3 hours  
Manag Photographic Collections  
Departmental Approval Required  
This class will examine issues involving managing photographic collections in archives. Topics covered will include photographic process identification, visual literacy, arrangement and description, storage/preservation needs, access, reference, digitization, rights and reproductions, curation, and born-digital image archives. Class Disclaimer: Students must meet the school's home computing and technology literacy prerequisites. See http://ischool.sjsu.edu/current-students/technology-support/home-computing-environmentA WISE course; requires consent of Graduate Studies Advisor to enroll (klucht@illinois.edu). Meets asynchronously through San Jose State University, INFO 284, Aug. 21 - Dec. 10, 2018. The instructor is Leigh Gleason. |
| 70868       | Independent Study | Smith, L    | ARRANGED - | 3       | Credit Hours: 3 hours  
Medical&Health Sci's Librship  
Departmental Approval Required  
NFO 220-12, Resources and Information Services in Medical Librarianship, will offer contemporary knowledge and skills on topics such as health sciences library history, medical subject classification, finding quality health information, biomedical database practice, consumer health programming, evidence-based health care, and cooperative medical library organizations and activities. Collaborative learning and assignments are featured. Class Disclaimer: Students must meet the school's home computing and technology literacy prerequisites. See http://ischool.sjsu.edu/current-students/technology-support/home-computing-environmentA WISE course; requires consent of Graduate Studies Advisor to enroll (klucht@illinois.edu). Meets asynchronously through San Jose State University, INFO 220-12, Aug. 21 - Dec. 10, 2018. The instructor is Charles Greenberg. |