Technology for Libraries & Information Centers
LIS 672 Course Syllabus
Fall 2016 • Mon. 1:00–3:40PM • HL 3F

Instructors
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HL 120

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HL 108A

Office Hours by appointment, please email your request to both instructors.

Course description
Survey of theories, concepts, methods and practices relating to the application of information technology to support the administration and use of information resources. Includes digital, printed and audiovisual materials.

Prerequisite
LIS 670 Introduction to Information Science and Technology or LIS 605 Metadata Creation for Information Organization OR instructor’s consent.

Student Learning Outcomes (SLO)
This course addresses the following objectives of the LIS Program, as stated in their mission and goals. This course enables students to:

SLO 1: Understand, apply and articulate the history, philosophy, principles and ethics of library and information science and the related professions.
1a) Apply LIS theory and principles to diverse information contexts
1b) Demonstrate understanding of the historical context of information services and systems
1c) Develop and apply critical thinking skills in preparation for professional practice

SLO 2: Develop, administrate, assess, and advocate for information services by exercising principled communication, teamwork and leadership skills.
2c) Develop, manage, and assess information services for specific users and communities
2d) Create instructional and outreach programs

SLO 4: Evaluate and use the latest information technologies, research findings and methods.
4a) Evaluate systems and technologies in terms of quality, functionality, cost-effectiveness and adherence to professional standards
4b) Integrate emerging technologies into professional practice
4c) Apply current research findings to professional practice

SLO 5: Engage in projects and assignments dealing with multicultural communities and representing diverse points of view.
5b) Demonstrate understanding of the social, cultural, political, and economic context of information services and systems

Course Objectives
- Students will build an awareness of a wide range of technologies, used in various aspects of information work. This includes: ILS; LSP; Discovery Platforms; Scholarly Communication and Instructional Technologies; Digital Scholarship Tools and Methods
- Students will develop a critical framework for understanding that technology is embedded in social, cultural, and technical contexts
- Students will learn to navigate the professional literature relating to technology
- Students will think strategically about implementing new technologies in a specific institutional context

Teaching method
Lectures are used to introduce students to the underlying theories and current issues with Integrated Library Systems and Technologies used in libraries and information centers. Guest speakers bring to the course expertise in a variety of fields, and provide students with additional resources and possible future collaborative projects. Hands-on in-class exercises and labs extend the experiential learning where we all learn from each other. The combination of lectures, guest speakers, in-class labs and exercises, and independent exercises helps students learn and share knowledge and insights as well as improve their communication skills which is vital in any organization.

Research methods
Methodologies and procedures for systems analysis and research can take different approaches. Examples of methods incorporated in assignments and course projects are: Needs assessment, Survey research, Content analysis, Transaction log analysis, Observations, and Usability studies.

Required Text
Required Readings
With the exception of selections from the required text, readings will be made available through Laulima at least one week prior to the relevant class session. Students are expected to have all readings and assignments completed before the class session unless otherwise instructed.

Professional Expectations
As an LIS graduate student, all students in the course are expected to become familiar with and adhere to the professional expectations and technical prerequisites posted at http://www.hawaii.edu/lis/students/professional-expectations-notice/ and http://www.hawaii.edu/lis/students/computer-literacy-skills/

This course is reading, writing, research, and fieldwork intensive. You should expect to spend at least 4 to 5 hours for each class session using your textbook, reading assigned articles, and actively participating in Laulima discussions (if applicable), and using print and online resources to research, write, and submit your work.

Emailing the Instructors
As you know, we are Adjunct Faculty in the LIS Program working full-time as a Systems Librarian in the Library Systems Office and as a Humanities Librarian in the Business, Humanities, and Social Sciences Department at Hamilton Library. We receive lots of work email on a daily basis. To differentiate your correspondence from all others, please use your UH email only, putting your course number in the email subject line so that we know it is from you for this course. This is vitally important. If you do not do this, we may miss your email. Please adhere to this on a consistent basis throughout the course, using the following as an example:

From: yourUHusername@hawaii.edu
Subject: LIS 672: Question about Assignment #2

Academic Integrity and Honesty
The field of Library and Information Science promotes ethical conduct of its members through published codes of ethics and standards of conduct. LIS Program students are expected to adopt and adhere to these established, copyright, internet, and intellectual property standards as outlined on the Professional Expectations Notice on the LIS Program website listed in the previous paragraph. Assignment instructions must be followed to protect you from any possible copyright violations, and any non-LIS Program entities you may be working with as part of this course. Instances of plagiarism, academic dishonesty, or academic impropriety will result in an automatic score of zero “0” for the assignment and may subject you to possible sanctions to the Graduate Dean.
Class Participation
The ability to work successfully with colleagues is the cornerstone of your career in the information profession. Therefore, active class participation and interaction with your fellow student-colleagues and instructors are important components of this course. Everyone is expected to contribute thoughtfully, respectfully, and fully during in-class sessions, non-class sessions (office hours, phone calls, text messages, halawai, skype), and online (to include email, text) communications regarding this course.

Additionally, in consideration of all during class, please silence all mobile devices by placing them in vibrate, silent, or airplane mode.

Technology requirements
This course requires use of an Internet network-connected computer with a standard Web browser such as Mozilla Firefox, Apple Safari, or Google Chrome, Word (or equivalent), PowerPoint (or equivalent), and Adobe Acrobat reader (available free of charge from http://www.adobe.com). Students are expected to check their @hawaii.edu email daily. The course requires the use of Laulima to access course materials and to conduct discussions with the instructors and fellow classmates.

Assignments

General Guidelines
- Unless otherwise specified, all assignments must be submitted via email to the Instructors by the assignment’s due date and time.
- Late assignments will be subject to a deduction of points and forfeits any Instructor feedback.
- Extensions will only be granted if there are significant extenuating circumstances. If you cannot submit your assignment by the due date and time, inform us as soon as possible.
- Written assignments should be submitted in PDF format and meet the following criteria: no smaller than 12-point font; with one-inch margins; include page numbers; your name in the document header

General Grading Rubrics
In general, your work will be evaluated on the basis of the following criteria. We will distribute more detailed grading rubrics for each assignment.

- Originality in thought and depth of ideas and analysis of the issue
- Demonstrated ability to use scholarly sources to support ideas and opinions
- Compliance with course assignment criteria and standards
- Fulfillment of all requirements for assignments
Assignment #1: Keeping Current Discussion Forum

Rationale
The purpose of this assignment is to engage you in regular professional development activities and build the habit of reflecting on how emerging library technology practices fit into your work. Setting aside some time to browse the current professional literature is one of the best ways to stay on top of developments in your field. You may even be inspired to try something new at your institution or to share your own work through a conference presentation or publication. Interrogating how new technologies might fit into your specific context can produce insights into your own work – even if you decide that a particular technological development is irrelevant.

Expectations
To complete this assignment, you will need to regularly check in with your choice of library technology news sources. When you see something interesting, write up a short, reflective discussion post about it and share it on Laulima. Additionally, we expect you to take the time to read your classmates posts and offer thoughtful reactions. Over the course of the semester, everyone is expected to contribute:

A. Everyone is expected to contribute 8 posts over the course of the semester.
B. Everyone should comment on at least 5 of their classmates’ posts.
C. Posts should be 250-300 words.
D. Include a link to the source material.
E. In each post: Briefly summarize the relevant news item, but the majority of each post should be reflective. For example, you might discuss how this topic is relevant to a context you are familiar with (i.e. a current or former workplace, a library you use regularly as a patron). Another possible approach is to tie the topic back to our classroom discussions or something else you’re learning about.
F. There is no word limit for comments, but they should include evidence of engagement.
G. Add your posts to the Assignment 1: Keeping Current Discussion Forum on Laulima.
H. We encourage you to post regularly throughout the semester, but everything (posts and comments) must be completed by Monday, November 21, 2016 at 1:00 PM.
Assignment #2: Current Issues and Emerging Technologies Paper

Rationale
This assignment builds on Assignment #1 and is designed to give you an awareness of current issues and emerging technologies in libraries and information centers. You will be able to build deeper expertise in a topic that interests you. Examples of relevant topics are a) integration of technologies and library services (e.g., ILS, LSP systems, digital repositories, podcasting servers, streaming video, etc.); b) open source software for library applications; c) incorporating the use of technology in teaching and learning in collaboration with academic leadership goals (e.g., digital humanities, Open Educational Resources); and d) developing IT funding models that sustain library and information center core services whilst developing an enterprise IT structure that can respond to changing conditions. Your topic does not have to be limited to these examples.

Expectations
This assignment consists of a 4-6 page paper. Required sections of your paper must include:
   A. the history of the topic
   B. why it is important for libraries
   C. how the topic will improve library services
   D. the tangible (or intangible) benefits for the library, its users, and/or the larger organization (e.g., lower overhead, better use of equipment and resources, etc.)

Assignment #3: Implementation Paper and Presentation

Rationale
This assignment asks you to consider to write and present a proposal for a new technology-based service in a specific library or information center. In doing so, you will have to evaluate the needs of your specific users, as well as understand the constraints imposed by a particular institutional context.

Expectations
This assignment consists of a 5-15 page paper. Students will present their proposal in class. The paper is worth 40% of your final grade, the presentation is worth 10%. Your final paper must include the following:
   A. why you chose the service and who is its target users
   B. why it is important for libraries/information centers
   C. what is the start-up and annual cost; include a table of proposed expenses (hardware, software, networking, etc)
   D. implementation timeline
   E. how will the service be evaluated for efficacy, upgrades, and obsolescence
   F. a list of responsibilities (who’s responsible for what)
Grading

Grading Scale

100-99 (outstanding work) = A+  
98-92 = A  
91-90 = A-

89 = B+  
88-82 = B  
81-80 = B-

79 = C+  
78-72 = C  
71-70 = C-

69 = D+  
68-62 = D  
61-60 = D-

A Summary View of Grading Criteria

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Due Date / Time</th>
<th>% of Final Grade</th>
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<tbody>
<tr>
<td>1  Keeping Current Discussion Posts</td>
<td>on-going; all posts due by November 21, 1:00pm</td>
<td>20%</td>
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<tr>
<td>2  Current Issues and Emerging Technologies</td>
<td>October 31, 1:00pm</td>
<td>20%</td>
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<tr>
<td>3  Proposal for Implementing a Technology Service. Presentation and Final Paper.</td>
<td>December 5: In-class presentation Dec 12, 1:00PM: Final Paper</td>
<td>50%</td>
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<tr>
<td>Class Participation</td>
<td></td>
<td>10%</td>
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<tr>
<td>TOTAL</td>
<td></td>
<td>100%</td>
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Course schedule
This course schedule is subject to change at the discretion of the instructors; changes will be announced in a timely manner in class and via email.

<table>
<thead>
<tr>
<th>Date</th>
<th>Session</th>
<th>Class Topic</th>
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<tbody>
<tr>
<td>Aug 22</td>
<td>01</td>
<td>Introductions and Course Overview</td>
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<tr>
<td>Aug 29</td>
<td>02</td>
<td>Library Technology in Sociopolitical Context</td>
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<td>Sep 5</td>
<td></td>
<td>Holiday: Labor Day. No class</td>
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<td>Sep 12</td>
<td>03</td>
<td>Open Educational Resources</td>
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<td>Sep 19</td>
<td>04</td>
<td>Scholarly Communication and Open Access</td>
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<td>Sep 26</td>
<td>05</td>
<td>Digital Scholarship</td>
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<td>Oct 3</td>
<td>06</td>
<td>Digital Pedagogy and Technology Instruction in Libraries</td>
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<td>Oct 10</td>
<td>07</td>
<td>Digital Privacy in a Surveillance Age</td>
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<tr>
<td>Oct 17</td>
<td>08</td>
<td>Introduction to the Discovery Layer</td>
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<td>Oct 24</td>
<td>09</td>
<td>Introduction to Integrated Library Systems (ILS) and Library Services Platforms (LSP)</td>
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<td>Oct 31</td>
<td>10</td>
<td>Halloween! Mid-semester Reflection (costumes optional)</td>
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Assignment 2 / Current & Emerging Technologies paper due by 1:00pm

<p>| Nov 7  | 11      | Evolution of ILS, LSPs, and Discovery Systems   |</p>
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<thead>
<tr>
<th>Date</th>
<th>Week</th>
<th>Event</th>
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<tr>
<td>Nov 14</td>
<td>12</td>
<td>Guest Lecture: Marshall Breeding, Librarytechnology.org</td>
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<td><strong>Final Paper Topic due by 1:00pm.</strong></td>
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<tr>
<td>Nov 21</td>
<td>13</td>
<td>Emerging Topics in Systems Librarianship</td>
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<td><strong>Assignment 1/ All discussion posts and comments due by 1:00pm.</strong></td>
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<td>Nov 28</td>
<td>14</td>
<td>Makerspaces, Minecraft, and Beyond</td>
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<td>Dec 5</td>
<td>15</td>
<td>Final Presentations; eCafe course evaluations</td>
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<td><strong>Assignment 3/ Presentation due by 1:00pm.</strong></td>
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<td>Dec 12</td>
<td>16</td>
<td>Finals Week. No class.</td>
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<td><strong>Assignment 3/ Implementation paper due by 1:00pm. Late papers will NOT be accepted.</strong></td>
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