Course Syllabus

LIS 672 – Technology for Libraries and Information Centers

Spring 2020 * Asynchronous

Course Instructor

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Course Description

This course is designed with the purpose to introduce students to the world of technology, as well as to cover particular software solutions that are utilized to support main library and information center services. The course is asynchronous and fully available online, so we will be using *Canvas*- the online learning tool for the purpose of going through the modules. After looking at the introductory concepts of hardware, software and networking, in the first part of the semester will focus on the historical developments of the library technology and information retrieval, and cover the Integrated Library Systems (ILSs) and all of their composing aspects. In the second part of the semester we will cover a plethora of technologies that are utilized by libraries, such as- digital libraries, institutional repositories, discovery products; but also, tech trends in general (i.e. cloud computing). The course will introduce you to the philosophy of openness in technological and intellectual property sense, and topics of open source software (OSS), open access (OA), and open educational resources (OER) will be covered. In the hands on part of this course, you will learn how to use Zotero, citation management system. Finally, by the end of this course we will look at the emerging and state-of-the-art technologies that should be part of the library and information center bundle in future. The hands-on skills will be related to introductory spreadsheet and citation management software (Zotero). The main objective for this course is SLO 4- Technologies, and considering this is an introductory course, no previous knowledge or experience is required.

General Educational Outcomes

Upon finishing this course, students will be able to understand and use technological terminology, necessary for communication with patrons, peers, IT staff, vendors, and other stakeholders in library and information centers. They will be acquainted with the core technological solutions and trends that are used in libraries, while being aware of the approaches designed to advocate *openness* in information technology and information (Open Software Services, Open Access, Open Educational Resources).

Student Learning Objectives (SLOs) & Course Goals (C#)

SLO4 Technologies: Evaluate and apply information technologies.

C1- Students will learn about different technologies, their principles, terminology, and usage.

C2- Students will be able to critically evaluate and plan for implementation of these different technologies in library and information centres, to support necessary operations and services for users.

Technology for the Class

The class is asynchronous and we will be using Canvas, a cloud based learning system. Some of the reading material will be available via class Drive. In cases where we agree to have an online class meeting, we will be using Zoom platform. For the hands-on sections, we will be utilizing spreadsheet software (Google Sheets or Excel) and Zotero citation management software.

Course Syllabus

This syllabus will serve as a general guide to the course, however it is subject to change.

Student's Conduct

UHM LIS Program expects its students to conduct themselves in a respectful, responsible, ethical, and professional manner. The program applies the university's Academic Integrity Policy, and all students are expected to become familiar with and adhere to the professional expectations. Be sure to do all of the assigned readings, be in time for the assignment submission.

Kokua

If you need reasonable accommodations to complete required coursework because of the impact of a documented disability, you are encouraged to explore the services of UH Manoa's KOKUA program. KOKUA provides disability access services to individuals on a case- by-case basis, and students are not charged for these services. A student's disability status is considered confidential information and is only disclosed to faculty with the student's permission.

Support Services

Confidential student counseling and support services are available at the UHM Counseling and Student Development Center (CSDC), Queen Lili‘uokalani Center for Student Services, Room 312. More information is available at the CSDC website: http://manoa.hawaii.edu/counseling/

Title IX is a federal civil rights law prohibiting discrimination and harassment in education. The UHM Office of Title IX has the specific responsibility for providing prompt and effective responses to all complaints of discrimination or harassment for faculty, staff and students. More information is available at the Office of Title IX

website: http://manoa.hawaii.edu/titleix/

Class Topics and Activities

Class (unlock date)	**Topic**	**Notes**
Class 1 1/13	**Introduction to the course**	**Zoom class meeting**
Class 2 1/20	**History of technological developments in LIS;** **Introduction to databases and information retrieval**	Evolution of IR lecture
Class 3 1/27	**Intro to IT terminology** **Intro to ILS**	Interview with library IT admin
Class 4 2/3	**Evaluating and implementing ILS solution**	Interview with a vendor
Class 5 2/10	**Before and after ILS purchase** **Cloud computing**	WebJunction Webinar on Cloud Computing
Class 6 2/17	**Strategic planning (ILS & technology plans)**	Spreadsheet tutorial Edge library assessment
Class 7 2/24	**Technology Planning and Environmental Scanning**	WebJunction Library Tech Planning Webinar (Siviera)
Class 8 3/2	**Open source technology for LIC**	Revolution OS move Zotero Workshop
	Midterm assignment- no class	
	Spring brake	
Class 9 3/23	**Digital Libraries**	Linked Data Webinar
Class 10 3/30	**Institutional Repositories, Open Access, Researcher Profiles**	Paywall documentary
Class 11 4/6	**Discovery Products, OER**	EDS webinar
Class 12	**Current trends and future**	Self-guided research

4/13	**developments #1**	
Class 13 4/20	**Current trends and future developments #2**	Horizon Report & OCLC Research Presentation
	No Class- Work on Final Assignment	
Class 14 5/4	**Presentations**	**Zoom class meeting**

Class Assignments & Quizzes

The classes are “unlocked” each Monday (midnight), and you have until Sunday (midnight) to fulfill the given tasks for the module. You are expected to go through all the resources in the page (linked words including), except in cases when a resources is introduced by - *you might find further information* - or similar phrase- that resource is optional.

You will be able to earn grade percentage during each of the modules. You can expect a short quiz after each of the pages with readings and resources (total of 1%). Make sure you go through all of the resources on the page before moving to quiz, because you can take it only once, and the time to take it is limited. Furthermore, for each of the modules, you will have an assignment pertinent to the topic. Late submissions will influence the total points earned, each day late results with -1%.

When the assignment is asking for a writeup, please use APA citation style when referring to other resources, and create reference list at the end of text. All inconsistencies with the style will influence grading. In Class 8 you will learn to use a citation management software (Zotero) that might help you with this.

Other Assignments (5%)

You will have 3 assignments each carrying 5%, and will be unlocked earlier for you to do them at your own convenience. Two of them are workshops (Spreadsheet & Zotero), and one is a public library assessment based on Edge library assessment workbook.

Midterm - **20%**

Group assignment- ILS plan for purchase and implementation

Work in groups to plan and purchase ILS for your library. Make a justified call and analysis based on proof and strategic thinking.

Length- 10 pages, double spaced, not including references

SLO4

Final Paper & Presentation - 35%

In this ePortfolio assignment, you will choose 3 technologies supporting services in LICs- one from the history (up to year 2000), one that is currently utilized (years 2000-now) and the anticipated technology that might be implemented in LICs to support future user needs. Feel free to focus on one of the technologies you have covered in you assignments previously, and to re-use the same text. For the future technology/service, make sure you use environmental scanning method (Class 7) and project at least 5 years in future- make sure to use your imagination as well as empirical evidence for the emergence of technology.

Write a paper and submit a video presentation (5-7 minutes long). Upload video to YouTube, and submit the link.

Paper Length- 12 pages, double spaced, not including references. Minimum 12 references, out of which 6 academic resources (APA style citation).

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-

Learning Material and Resources

All of the resources found in Canvas course are considered as required. That includes the text in each of the pages, links in the text, web resources, videos, webinars and tutorials.

Class Textbook

Webber, D., & Peters, A. (2010). *Integrated library systems: Planning, selecting, and implementing*. Santa Barbara, Calif: Libraries Unlimited.

The bibliography for reading material can be found below, while other course material will be provided as part of the coursework in pertinent Canvas modules.
The readings (mainly book chapters) for which the link is not provided below, and are not accessible online via library website, can be accessed in the class Drive.

Outline of Class Readings:

Class 1

Engard, N. C., & Gordon, R. S. (2012). *The accidental systems librarian* (2nd ed). Medford, N.J: Information Today, Inc. Chapter 1. Available at: http://books.infotoday.com/books/Accidental-Systems-Librarian/Sample-Chapter.pdf

Class 2

Rayward, W. B. (1997). The origins of information science and the International Institute of Bibliography/International Federation for Information and Documentation (FID). *Journal of the American Society for Information Science*, (4), 13. https://doi.org/10.1002/(SICI)1097-4571(199704)48:43.0.CO;2-S

Coyle, K. (2016, January 4). The Evolving Catalog: Cataloging tech from scrolls to computers. Retrieved August 15, 2019, from American Libraries Magazine website: https://americanlibrariesmagazine.org/2016/01/04/cataloging-evolves/

Class 3

Burke, J. J. (2016). *The Neal-Schuman library technology companion: A Basic guide for library staff* (Fifth edition). Chicago: Neal-Schuman, An imprint of ALA. **Chapter 6.**

Webber, D., & Peters, A. (2010). *Integrated library systems: Planning, selecting, and implementing*. Santa Barbara, Calif: Libraries Unlimited. **Chapters 1 & 3**

Class 4

Webber, D., & Peters, A. (2010). *Integrated library systems: Planning, selecting, and implementing*. Santa Barbara, Calif: Libraries Unlimited. **Chapters 2 & 4**

Grant, C. (2012). The Future of Library Systems: Library Services Platforms. *Information Standards Quarterly*, *24*(4), 4. https://doi.org/10.3789/isqv24n4.2012.02.

Enis, M. (2015). Managing MultipliCity. *Library Journal; New York*, *140*(6), n/a.

Class 5

Webber, D., & Peters, A. (2010). *Integrated library systems: Planning, selecting, and implementing*. Santa Barbara, Calif: Libraries Unlimited. **Chapters 5, 6, 10.**

Class 6

Webber, D., & Peters, A. (2010). *Integrated library systems: Planning, selecting, and implementing*. Santa Barbara, Calif: Libraries Unlimited. **Chapters 7-9**

Edge Workbook (2019)

Class 7

Silveira, D. (2018). *Library technology planning for today and tomorrow: A LITA guide*. Lanham: Rowman & Littlefield. **Chapter 4**

Stephens, M. (2012, May 30). Taming Technolust: Ten Steps for Planning in a 2.0 World (Full Text). Retrieved November 10, 2019, from Tame The Web website: https://tametheweb.com/2012/05/30/taming-technolust-ten-steps-for-planning-in-a-2-0-world-full-text/

Gordon, T. J., & Glenn, J. C. (2009). Environmental scanning. In *Futures research methodology—Version 3.0* (Jerome C. Glenn and Theodore J. Gordon, Eds.) AC/UNU Millennium Project. Washington: American Council for the UN University.

Class 8

Breeding, M. (2017). Open Source Software. Retrieved November 15, 2019, from American Libraries Magazine website: https://americanlibrariesmagazine.org/2017/11/01/open-source-software/

Singh, M., & Sanaman, G. (2012). Open source integrated library management systems: Comparative analysis of Koha and NewGenLib. The Electronic Library, 30(6), 809–832. https://doi.org/10.1108/02640471211282127

Hensley, M. K. (2011). Citation Management Software. *Reference & User Services Quarterly*, *50*(3), 204–208. Available at: https://www.journals.ala.org/index.php/rusq/article/viewFile/3962/4448 (Links to an external site.)

Class 9

Schwartz, C. (2000). Digital Libraries: An Overview. *The Journal of Academic Librarianship*, *26*(6).

Brown, L., Horowitz, E., Johnson, E., & Powers, M. (2014). *BIBFRAME, Europeana and DPLA: The Future of Open Cultural Heritage?* 73. https://academicworks.cuny.edu/yc_pubs/200

Class 10

Burns, C. S., Lana, A., & Budd, J. M. (2013). Institutional repositories: Exploration of costs and value. D-Lib Magazine, 19(1/2). https://doi.org/10.1045/january2013-burns

Gasparyan, A. Y., Nurmashev, B., Yessirkepov, M., Endovitskiy, D. A., Voronov, A. A., & Kitas, G. D. (2017). Researcher and author profiles: Opportunities, advantages, and limitations. *Journal of Korean Medical Science*, *32*(11), 1749–1756. https://doi.org/10.3346/jkms.2017.32.11.1749.

Akers, K. G., Sarkozy, A., Wu, W., & Slyman, A. (2016). ORCID Author identifiers: A primer for librarians. *Medical Reference Services Quarterly*, *35*(2), 135–144. https://doi.org/10.1080/02763869.2016.1152139 ;

Class 11

Breeding, M., & National Information Standards Organization (U.S.). (2015). *The future of library resource discovery: A white paper commissioned by the NISO Discovery to Delivery (D2D) Topic Committee*.

Deimann, M., & Farrow, R. (2013). Rethinking OER and their use: Open education as Bildung. *The International Review of Research in Open and Distributed Learning*, *14*(3), 344–360. https://doi.org/10.19173/irrodl.v14i3.1370

Class 12

New Media Consortium, University of Applied Sciences (HTW) Chur, Technische Informationsbibliothek (TIB) Hannover, and ETH-Bibliothek

Zurich. (2015). *NMC horizon report- 2015 library edition.* Retrieved from http://cdn.nmc.org/media/2014-nmc-horizon-report-library-EN.pdf

Class 13

3 articles of your choice