

LSC 555
Information Systems in Libraries and Information Centers
Syllabus - Summer 2007

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Description

This course will provide a general overview of information technology and the basic components of information systems, with particular emphasis on the role of information systems in libraries. Both the basic principles of information systems and their practical application to the mission of libraries will be examined. Key topics will include the technical infrastructure of information systems, the management of information systems (selection, implementation and development), information standards, integrated library systems, and the impact of emerging technologies on information systems in libraries.

Course Description:

SLIS Catalog:

Introduction to the role of information systems in the storage and retrieval of information. Covers information-seeking behavior and communication in electronic environments, with special emphasis on using systems to solve information problems. Explores the use of computers in information centers, library automation, database structure and design, search engines, and the Internet.

Additional Description :

This course provides a general overview of information technology and its essential principles. We will emphasize the use of information technology to support the mission of libraries and to support the research and information seeking behaviors of library users. We will examine the ways in which information technology has evolved in libraries and how changes in technology have impacted library management and services.

Course Objectives:

1. Establish familiarity with the basic principles of information systems
2. Establish familiarity with the management of information systems
3. Establish familiarity with the evaluation of information systems
4. Establish familiarity with the use of information systems in the library environment and the impact of technology on library services

Course Design:

Class time will be primarily devoted to lecture and class discussion. Live demonstration of relevant information systems will be included to illustrate specific principles.

Course Requirements:

Grades will be based on assignments and examinations as follows:

- 1. Assignment 1: Systems Glossary----10%**
- 2. Assignment 2: Standards Report---- 10%**
- 3. Midterm Exam 25%**
- 4. Assignment 3 User Interface Evaluation----10%**
- 5. Group projects----10%**
- 5. Final Exam 30%**
- 6. Class participation----5%**

Students will need access to the World Wide Web in order to complete assignments. Written assignments must be typed-double-spaced; use of word processing software to complete these assignments is highly recommended. Proper citation format and clear grammar are expected in written assignments. Assignments must be turned in by the due date. Late assignments will be penalized 5 points per day after the due date.

Grading Scale

Grade	Credit	Score Range
A	4.0	95-100
A-	3.7	90-94
B+	3.3	86-89
B	3.0	83-85
B-	2.7	79-82
C+	2.3	75-78
C	2.0	71-74
C-	1.5	68-70
D	1.0	60-67
F	0	0-59

Academic Honesty

Please review the CUA policies on <http://policies.cua.edu/academicundergrad/integrity.cfm>. You are held responsible for adhering to these policies. Incidences of academic dishonesty, defined by the University as "failure to observe rules of fairness in taking exams or writing papers, plagiarism, fabrication, and cheating" will result in a grade of F (0 points) on the project or exam in question, and will be reported to the Dean for possible further action (including failure in the course and/or dismissal from the academic program). Talk with your instructor if you have questions about what is involved in such offenses. Plagiarism, which includes "[1] intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise; [2] failure to attribute any of the following: quotations, paraphrases, or borrowed information from print sources or websites; [3] buying completed papers from others to use as one's own work", will not be tolerated.

ADA Accommodation

Students with disabilities requiring accommodation under federal regulations must present a written accommodation request to the instructor by the second class meeting (May 23). It is also strongly recommended that the student contact the Office of Disability Support Services, Suite 207, Pryzbyla Center. This is the University office responsible for disability accommodation and services, and its staff can answer questions about services and requirements regarding documentation. Special accommodations or other arrangements cannot be made without documentation approved by this office.

The Center's contact information is:

Telephone: 202-319-5211

Fax: 202-319-5126

TTY: 202-299-2899

Website: <http://disabilityservices.cua.edu/>

Further information can be found here:

<http://counsel.cua.edu/ADA/publications/disbro/contents.cfm>
<http://counsel.cua.edu/ADA/clicks/>

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Course Schedule

There will be 8 class sessions. Students are asked to complete the assigned readings in the order as listed, and additional readings will also be available on our Blackboard page.

Important dates:

- 5/16: First day of class
- 6/6 : No class
- 6/13: Midterm Exam (7:00-8:00)
- 7/11: Case Study Project Presentations
- 7/18: Final exam (6:00-8:00)

Session/ Date	Topic	Readings
1-5/16	<p style="text-align: center;">Introductions, Course Overview.</p> <p style="text-align: center;">General introduction to information systems</p> <p style="text-align: center;">Evolution of information systems</p>	<p>Stair & Reynolds, Chapter 1</p> <p>Kochtanek & Matthews, Chapter 1,</p> <p>Bush, "As we may think"</p>
2-5/23	<p>The components of information systems: Hardware & software</p> <p>Networks: information systems & communication</p>	<p>Stair & Reynolds, Chapter 2 & 4</p> <p>Kochtanek & Matthews, Chapter 5</p> <p>Leiner, et al "A brief history of the internet"</p>

3-5/30	<p>Library information systems: overview, history & current environment</p> <p>Standards: metadata & interoperability in the library environment</p>	<p>Kochtanek & Matthews, pp. 14-19, Chapters 3, 6</p> <p>Borgman "From acting globally to thinking locally: a brief history of library information"</p> <p>Groenewegen "Four decades of library automation: recollections and reflections"</p> <p>Breeding "Automated system marketplace" - review 2002-2006</p> <p>NISO web site: "Creating standards"</p>
6/6	No class	
4-6/13	<p>System Development & System management</p> <p>Mid-term exam 7:00-8:00 p.m.</p>	<p>Stair & Reynolds, Chapter 8</p> <p>Kochtanek & Matthews, Chapters 7,10,12</p> <p>Manifold, "A principled approach to selecting an automated library system"</p>
5-6/20	<p>Electronic content and the World Wide Web</p> <p>Usability: the end user and information systems</p>	<p>Kochtanek & Matthews, Chapter 11, pp. 20-25</p> <p>Felker "Ariadne's thread: hypertext, writing, and the World Wide Web"</p> <p>Berners-Lee, et al "The semantic web"</p> <p>Nielsen, "Ten Usability Heuristics"</p> <p>Nielsen "How to conduct a heuristic evaluation"</p>
6-6/27	<p>Digital Libraries</p> <p>Library information systems:</p>	<p>Kochtanek & Matthews, Chapter 14</p> <p>Coyle "Rights Management and</p>

	future trends	<p>Digital Library Requirements”</p> <p>NISO Framework Advisory Group, A Framework of Guidance for Building Good Digital Collections. 2nd edition.</p> <p>Kochtanek & Matthews, Chapter 13</p> <p>Miller “Coming together around library 2.0“</p> <p>Dempsey “The (digital) library environment: ten years after”</p> <p>Browse: planet code4lib (blogs)</p>
7/4	No class - July 4th holiday	
7-7/11	Case Study Presentations	
8-7/18	Final Examination	

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Assigned Readings

Required Textbooks:

1. Stair, R., & Reynolds, G. (2008). *Fundamentals of Information Systems, 4th Edition*. Boston: Thomson Course Technology.
ISBN: 1-4239-0113-4. (To be purchased from CUA Bookstore Textbook Section).
2. Kocktanek, T. R. & Matthews, J. R. (2002). *Library Information Systems: From Library Automation to Distributed Information Access Solutions*. Westport, CT: Library Unlimited.
ISBN: 1-59158-018-8. (To be purchased from CUA Bookstore Textbook Section)

Required Readings:

Bush, Vannever (1945). As We May Think. *The Atlantic Monthly Volume 176*(1) 101-108. (<http://www.theatlantic.com/doc/194507/bush>)

Leiner, B., et al (2003). A brief history of the internet.
(<http://www.isoc.org/internet/history/brief.shtml>)

Breeding, Marshall. Automated system marketplace (several articles). *Library Journal*
(<http://www.librarytechnology.org/index.pl?SID=20060828459777832&UID=&auth=>)

Borgmann, Christine (1997). From acting globally to thinking locally: a brief history of library information. *Library Quarterly* 67(3) 215-
(<http://search.ebscohost.com.proxycu.wrlc.org/login.aspx?direct=true&db=aph&AN=9709051526&site=ehost-live>)

Groenewegen, Hans (2004). Four decades of library automation: recollections and reflections. *The Australian Library Journal* 53(1).
(<http://alia.org.au/publishing/alj/53.1/full.text/groenewegen.html>)

National Information Standards Organization (2005). Creating standards.
(<http://www.niso.org/creating/index.html>)

Felker, Kyle (2002) Ariadne's thread: hypertext, writing, and the World Wide Web. *Library Hi Tech* 20(3) 325-339.
(<http://www.emeraldinsight.com.proxycu.wrlc.org/10.1108/07378830210444522>)

Berners-Lee, Tim, et al (2001) The semantic web. *Scientific American* 284(5) 34-
. (<http://www.aladin.wrlc.org/Z-WEB/Aladin?req=db&key=ALADINPROXY&url=http://search.epnet.com/login.aspx?direct=true&db=aph&an=4328935>)

Nielsen, Jakob. How to conduct a heuristic evaluation.
(http://www.useit.com/papers/heuristic/heuristic_evaluation.html)

Nielsen, Jakob. Ten Usability Heuristics.
(http://www.useit.com/papers/heuristic/heuristic_list.html)

NISO Framework Advisory Group. *A Framework of Guidance for Building Good Digital Collections. 2nd edition*. Bethesda, MD: National Information Standards Organization, 2004. (<http://www.niso.org/framework/framework2.html>)

Manifold, Alan (2000). A principled approach to selecting an automated library system. *Library Hi Tech* 18(2) 119-130.
(<http://www.emeraldinsight.com.proxycu.wrlc.org/Insight/viewContentItem.do?contentId=861231>)

Coyle, Karen (2004). Rights management and digital library requirements. *Ariadne* 40. (<http://www.ariadne.ac.uk/issue40/coyle/>)

Miller, Paul (2006). Coming together around library 2.0. *D-Lib Magazine* 12(4)
DOI:10.1045/april2006-miller (<http://www.dlib.org/dlib/april06/miller/04miller.html>)

Dempsey, Lorcan (2006). The (Digital) Library Environment: Ten Years After. *Ariadne* 46. (<http://www.ariadne.ac.uk/issue46/dempsey/>)

Blackboard Page:

A Blackboard course page has been established for the class. Required readings are available in the Course Documents section of the page. Assignments will be made available via the page as well. Students are welcome to post messages relating to the class to the discussion board on the course page (in the Communications section).

Information for accessing the CLSC 555 Blackboard course page will be distributed at our first class session. You may access the page at:
<http://courses.cua.edu> (follow the Blackboard link).

