Course Description
This course introduces students to the evolving role of information systems in the storage and retrieval of information. Students explore how information technology in libraries, archives and information centers, and on the World Wide Web facilitates interaction with information.

Course Goals
This course is designed to:
- Introduce students to applicable theory, principles, and standards;
- Explore the capabilities and functions of several classes of information systems, including established technology like Integrated Library Systems and databases as well as evolving social and collaborative environments;
- Introduce essential technology elements (hardware, software, networking, etc.);
- Introduce practical information technology skills used by information professionals, such as working with databases and creating and publishing web pages; and
- Promote critical thinking, problem solving and collaborative teamwork abilities for working with information technology.

Goals for Student Learning
At the conclusion of this course, students will be able to:

1. Explain the role and functions of computer-based information systems in libraries or information centers or on the web.
2. Describe fundamental computer and communications technology principles and trends applicable to libraries, archives or other information centers.
3. Describe important human and technological issues in the electronic environment.
4. Employ systems analysis and human-computer interaction frameworks to analyze the design and operation of information systems in libraries or information centers or on the web.
5. Demonstrate basic skills in selected current technologies (such as database management systems (DBMS), HTML, wikis, or blogs) to organize and disseminate information.
6. Articulate the importance of, and strategies for, professional development and continuous learning about information technology in LIS.

Instructional Methods
This course uses a variety of instructional methods and activities:
- Lecture and discussion based on the readings.
- Small group discussions and paired critiques of work products.
- Hands-on exercises for skills development.
- A team project, including student presentation and critique.
- Collaborative learning - You will learn from each other by sharing experiences, knowledge and skills.
- Feedback to and from the instructor.

Course Overall Structure (Modules)
Below are main broad modules of the course. The introduction module deals with information concepts, systems concepts, and impacts of technology and systems in library environments. The Information Systems module investigates selected information systems that are relevant to the LIS field and LIS professionals. The technology foundation module covers important components of LIS related information systems as well as any information system. The techniques for system development focus on ways of planning, analyzing, and developing information systems. The advanced Web module introduces basic Web design principles, CSS, and XML. In the final module, we wrap up the course, with project presentations, course review, etc.:

<table>
<thead>
<tr>
<th>Module</th>
<th>Topics</th>
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<tbody>
<tr>
<td>Introduction &amp; Techniques for system development and analysis</td>
<td>Introduction to the course, System Development</td>
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<tr>
<td>Information systems</td>
<td>Information systems in libraries</td>
</tr>
<tr>
<td>Technology foundation</td>
<td>Computer hardware and storage, software, Data representation (Databases), Networks, Internet, Web technologies, HTML Basics, Usability &amp; Web design (CSS, XML)</td>
</tr>
<tr>
<td>Wrap-up</td>
<td>Social Issues, Technology trends: Course review, Group project presentation</td>
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Course Materials:

No textbook required.

Optional supplemental Texts


Some other books about computers are available via CUA libraries.


Required Technologies
The following technologies are taught as an essential part of this course or required for course delivery:

- Basic HTML
- Publishing a web page to the CUA Personal Web Site
- Use of collaborative tools (a blog and wiki) for shared content development and collaborative activity
- Exploration of relational database concepts using Microsoft Access

Grading:

Grades will be based on the following (subject to minor adjustment):
(Note: An instruction and details of each assignment will be handed in class and be available on a course BB site.)

<table>
<thead>
<tr>
<th>Supporting learning objectives</th>
<th>Requirements</th>
<th>Contribution to Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>#4</td>
<td>Evaluation of IR systems</td>
<td>15%</td>
</tr>
<tr>
<td>#1, #2,</td>
<td>Individual research paper about a chosen topic of technological aspects and its impact on LIS</td>
<td>20%</td>
</tr>
<tr>
<td>#5, #6</td>
<td>Reading blogs</td>
<td>15%</td>
</tr>
<tr>
<td>#3, #5</td>
<td>Interface evaluation</td>
<td>10%</td>
</tr>
<tr>
<td></td>
<td>Web page creation on CUA server</td>
<td>10%</td>
</tr>
<tr>
<td>#3, #4</td>
<td>Group project</td>
<td>25%</td>
</tr>
<tr>
<td></td>
<td>Class attendance (One class miss is allowed. Additional misses will be penalized with 2% deduction out of 5%).</td>
<td>5%</td>
</tr>
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</table>
Final grades will be determined by the following scale:

- A: 94 – 100
- A-: 90 -93.99
- B+: 86-89.99
- B: 82-85.99
- B-: 78-81.99
- C: 70-77.99
- F: Below 70

**Note:**
1. Detailed information of assignments and projects will be distributed in class or available on Blackboard (http://bb8.cua.edu)
2. Please consult below in the section “Participation and conduct” for other course policies

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**Course Schedule**

*This schedule and syllabus is subject to change depending on class needs. Sometimes, additional suggested readings may be added or announced in class.*

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
</tr>
</thead>
</table>
| 8/31 | *Information concepts & tools and techniques to manage information and information services in library environments.*  
*System concepts  
*Introduction to information systems* | *Kochtanel and Matthews (2002). Ch.1. The evolution of LIS and enabling technologies. In Library Information Systems, pp. 3-12 (Available on BB site).*  
*Arnold Hirshon (2008). Environmental scan: A report on trends and technologies affecting libraries (Full-text available on BB site)* |
(Read pages 1-13. You can access this via ALADIN. Go to [http://libraries.cua.edu](http://libraries.cua.edu). Under Article Databases & More, select Encyclopedias and Dictionaries, then look for Encyclopedia Brittanica Online.)*  
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/12</td>
<td>Administrative Wed. (no Tuesday class)</td>
<td></td>
</tr>
</tbody>
</table>
| 10/19 | Networks, Internet, and Web technologies (Web 2.0)     | Internet Pioneers (especially take a look at a link to Vannevar Bush)  
http://www.ibiblio.org/pioneers/index.html  
How internet infrastructure works:  
| 10/26 | ASIST Conference (no class)                            |                                                                                                                                          |
| 11/2  | *HTML Basics                                           | HTML tutorial  
http://www.w3schools.com/html/DEFAULT.asp  
Make an HTML Document |
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Notes</th>
</tr>
</thead>
</table>
The 10 most violated homepage design guidelines [http://www.useit.com/alertbox/20031110.html](http://www.useit.com/alertbox/20031110.html)  
First principles of interaction design [http://www.asktog.com/basics/firstPrinciples.html](http://www.asktog.com/basics/firstPrinciples.html)  
| 11/30 | Group project presentation | Course Summary & evaluation                                                                 |
| 12/7  | Group project presentation |                                                                                               |
Course Policies and Procedures:

**Formatting of your assignments.**
- I prefer electronic submission of your assignment via course BB site Dropbox (http://bb8.cua.edu)
- For hard copy work, securely fasten together any papers that are more than 1 page.
- Place your name and the assignment number on the first page.
- Minimum margins are 1 ¼” left and 1” top, bottom, and 1 ¼” right.
- Use double-spaced line spacing, or space and a half, not single-spaced.
- Submitted work must have a professional appearance and not be handwritten.
- Any work submitted with numerous ungrammaticalities will be penalized.

**Participation & Conduct:**
- **Attendance is mandatory.** Attendance is required, in keeping with university policy. Students may miss up to 3 classes without a penalty. Additional miss will be penalized.
- **Late work.** Assignments are due at the start of class. Assignments turned in after the due time without prior approval will be penalized 10% for each 24-hour period that it is late. Assignments that are over 3 days late will NOT be accepted unless arrangements have been made with me. I encourage you to consult with me any special circumstances that will affect your ability to perform your assignments or turn in your assignments on time.
- **No makeup work.**
- **Arrive on time.**
- **Behave respectfully.** Students are expected to behave respectfully while in class.
- **No grade discussions in class.** Instructors will not discuss grades in class. First consider why the instructors deducted points. If you still disagree, explain your disagreement in an e-mail to the instructors.

**Late Policy**

Assignments are due at the start of class. Assignments turned in after the due time without prior approval will be penalized 10% for each 24-hour period that it is late. Assignments that are over 3 days late will NOT be accepted unless arrangements have been made with me. I encourage you to consult with me any special circumstances that will affect your ability to perform your assignments or turn in your assignments on time.

**Academic Honesty Policy:**

Please read the policy on relevant information on academic honest found in the University’s Online Student Handbook at: http://studentlife.cua.edu/studenthandbook.pdf and on the website for the University’s Policies & Procedures at: http://policies.cua.edu. It is expected that all students will adhere to accepted codes of ethical, personal, and civil conduct while in this class and conversing online, using e-mail, or engaging in any online chat sessions. Failure to abide by such codes of conduct and etiquette may result in withdrawal from the course and a failing grade.
Academic dishonesty is defined in the Handbook as “failure to observe rules of fairness in taking exams or writing papers, plagiarism, fabrication, and cheating”. Any incidence of plagiarism will result in a grade of F (0 points) on the project or exam in question, and will be reported to the Dean of the School of Library and Information Science for possible further action (including failure in the course).

Plagiarism will not be tolerated. Catholic University of America defines plagiarism to include: "Intentionally or knowingly representing the words or ideas of another as one’s own in any academic exercise" "Failure to attribute any of the following: quotations, paraphrases, or borrowed information from print sources or web sites" "Buying completed papers from other to use as one’s own work”,
For more on what constitutes plagiarism and how to avoid it, see the guide on the Purdue Online Writing Lab web site at: http://owl.english.purdue.edu/handouts/research/r_plagiar.html.

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**ADA Accommodation:**

Students with disabilities requiring accommodation under federal regulations must present a written accommodation request to the instructor by the second class meeting. It is strongly recommended that the student contact the Office of Disability Support Services, Suite 207, Pryzbyla Center (202-319-5211; email cua-disabilityservices@cua.edu, web http://disabilitysupport.cua.edu/). 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.

**Syllabus changes:**

- The instructors reserve the right to make changes to this syllabus if circumstances warrant such change. All changes will be provided to students in writing.