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Office: A151C Hamilton Library

Course Access:

All course communication and resources available at  
URL: https://laulima.hawaii.edu/portal/site/MAN.3177.201233  
Sign in to Laulima <http://laulima.hawaii.edu> with your UH name and password and  
click on Modules to get started. All registered students will have access to the course  
site.

Course Description:

This course is a survey class of resources and issues in science librarianship covering  
basic and applied sciences. The course will provide an introduction to the sociology and  
history of scientific disciplines, the structure of scientific information, and explore how  
librarians provide bridges between those seeking scientific information and the research  
literature.

Pre: LIS 601 or consent of instructor

Student Learning Outcomes Addressed:

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  
1d) Craft and articulate a professional identity

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

SLO 3  
Organize, create, archive, preserve, retrieve, manage, evaluate, and disseminate  
information resources in a variety of formats  
3a) Demonstrate understanding of the processes by which information is created,  
evaluated, and disseminated  
3c) Search, retrieve and synthesize information from a variety of systems and  
sources
SLO 4
Evaluate and use the latest information technologies, research findings and methods.
   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 and cultural context of information services and systems

Professional Expectations:

All students in the Program are expected to become familiar with and adhere to the Professional Expectations posted at http://www.hawaii.edu/slis/students/profexp.html

Research Methods:

This course focuses on the learning about and evaluating science information sources so that the student will be apply to apply that knowledge to research questions in the many major disciplines of science. The student will need to apply the practical knowledge gained in working with the resources to designing instruction sessions, exploring scientific topics, and evaluating science collections.

Course Objectives:

1. Demonstrate an understanding of the history, philosophy, principles, policies and ethics of science libraries and science librarianship

2. Demonstrate an understanding of the development, organization, and communication of scientific knowledge; discern the similarities and differences between the science disciplines and those in arts, humanities, and social sciences.

3. Understand the principle means by which science information is created and disseminated;

4. Gain insight into the approaches to gathering scientific information taken by scholars, students, and the non-scientist;

5. Demonstrate ability to evaluate, select and organize information sources for the support of scientific and technical research and education;

6. Demonstrate an overall knowledge of current science information resources and their application to furthering science research and education.

Course philosophy:

The classroom will serve as a collaborative laboratory in which to explore science librarianship through readings, discussions, practice, and presentations. Active
participation in the class and completion of assignments is essential. At the close of this course students will have a greater understanding of the culture of science, how science is communicated and the tools and resources librarians use to help connect information seekers to the literature and data they need to pursue their research.

**Technology Integration and Requirements:**

In this course, you will be expected to accomplish the following:

- Conduct online searches to develop content for presentations and instructional plans.
- Create multimedia presentations using PowerPoint or other presentation applications.
- Post work online using the UHM Laulima system and engage in peer critiquing sessions using the same system.
- Access course material via UHM Laulima

**Grading Scale out of 300 points:**

- A+=100-98%
- A =97-94%
- A-=93-90%
- B+=89-87%
- B = 86-83%
- B-=82-80%
- C+=79-77%
- C = 76-73%
- C-=72-70%
- D+=69-67%
- D =66-63%
- D-=62-60%

**Course Requirements and Assignments:**

Assignments are due by the posted due date and time. Assessment criteria will be provided with the Guidelines that will be included in the Assignments section of Laulima.

Note: *Students are expected to participate in announced online discussions. All discourse will be professional and collegial. As librarians we must be sensitive to the effects of word selection, tone, and context on constructive communication.*

1. Thirteen question sets about the weekly readings; 10 points each. Links to the assigned readings will be provided; students will be notified of the readings in a timely manner. Answers are due on the scheduled date and time. Student answers will be selected by instructor to share with the entire class in the Discussion section of Laulima. 130 points

2. Problem sets pertaining to science disciplines covered in class (general science,
astronomy, physics, mathematics, chemistry, biological sciences, geological sciences, meteorology). 9 assignments, 10 points each. Due on the date and time stated in Assignment associated with the Module of the week. 90 points

3. Compare popular report of scientific discovery with original scholarly publication. 500 words. Due April 2. 10 points

4. One Book One Class. Review of selected popular science book. 750 words; develop a short bibliography of scholarly papers and if available scholarly books relevant to the topic explored in the book. We will use the Discussion section of Laulima to discuss the book after all reviews have been submitted. Every student is expected to participate. Review due March 26. 20 points. Discussion will be announced and will be worth 5 points.

5. Presentation of profile of science library, department, or service—what subjects do they support, staffing, what services do they offer (reference, virtual reference—what kind, webpage, teaching, etc.), place in organization, organization of staff. Due April 9. 20 points

6. Presentation on a scientific or technology subject; teach the class about the discipline, professional societies associated with discipline, resources, and sample searches using vocabulary of subject. Provide handout(s) or webpage to class to support your instruction. Due April 30. 25 points

**Required Readings**

Assigned readings will either be posted to Laulima or links to e-journal articles will be provided. Students will be expected to obtain a copy of the book selection for the assignment, One Book One Class.
LIS 660 Spring 2012 Course Schedule

*The most current course schedule is posted in the Modules section of the UHM Laulima LIS-660-331 [MAN.3177.SP12]*

*Any changes to the scheduling of content will be posted in Laulima.*

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<td>Understanding Science</td>
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<td>Scientific Communication</td>
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<td>General Science Resources</td>
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<td>February 6</td>
<td>Competencies in Science Librarianship</td>
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