

## Syllabus

**Department:** Division of Library and Information Science

**Course Number and Title:** LIS 237 Metadata for Information Professionals

**Bulletin Description:** [25 words maximum]

This graduate-level course will emphasize metadata schemes (structure and semantics) and their encoding in a machine-readable syntax across a wide range of user communities.

**Prerequisite(s):** None

**Co-requisite(s):** None

### Course Objectives:

As outcomes of the course, students will:

- 1) Understand the use of metadata in library, archival, museum, information center, and Internet communities;
- 2) Understand the structure, value, and content of major metadata standards;
- 3) Encode metadata schemas in HTML/XHTML, XML, and RDF/XML formats
- 4) Relate relational database schemas and XML encodings;
- 5) Explore tools for generating metadata records
- 6) Determine the functional requirements for a given application domain;
- 7) Design an application profile for a collection;
- 8) Understand the challenges to maintaining quality metadata records;
- 9) Understand the relationship between metadata quality and interoperability;
- 10) Develop crosswalks between metadata standards.

### Program Goals and Outcomes:

- 1A) Demonstrate knowledge of the ethics, values, and foundational principles and the role of library and information professionals in the promotion of democratic and legal principles and intellectual freedom.
- 1D) Demonstrate effective communication techniques (verbal and written) used to analyze complex problems and create appropriate solutions.
- 3A) Understand the principles involved and the developmental, descriptive, and evaluative skills needed in the organization, representation and retrieval of recorded knowledge and information resources.
- 3B) Demonstrate ability to organize recorded knowledge and information using the systems of cataloging, metadata, indexing, and classification standards and methods.

## Units of Instruction:

The table below lists the required reading in the textbook.

Chapter	Title
1	Introduction
2	Current Standards
3	Schemas – Structure and Semantics
4	Schemas - Syntax
5	Metadata Records
6	Metadata Services (sections 6.1, 6.3, and 6.4)
7	Metadata Quality (sections 7.1, 7.2, 7.5, and 7.6)
8	Interoperability

## Bibliography:

Zeng, M. L., & Qin, J. (2008). *Metadata*. New York: Neal-Schuman.  
ISBN: 978-1-55570-635-7

Baca, M (Ed.). (2008). *Introduction to metadata, online edition, version 3.0*. Retrieved from  
[http://www.getty.edu/research/publications/electronic\\_publications/intrometadata/index.html](http://www.getty.edu/research/publications/electronic_publications/intrometadata/index.html)

National Information Standards Organization (2004). *Understanding metadata*. Bethesda, MD: NISO Press.  
Retrieved from (<http://www.niso.org/standards/resources/UnderstandingMetadata.pdf>).

Caplan, P. (2000). International metadata initiatives: Lessons in bibliographic control. Paper presented at:  
Conference on Bibliographic Control in the New Millenium, Library of Congress. Retrieved from  
[http://lcweb.loc.gov/catdir/bibcontrol/caplan\\_paper.html](http://lcweb.loc.gov/catdir/bibcontrol/caplan_paper.html)

Berners-Lee, T., Hendler, J., & Lassila, O. (2001). The semantic web. *Scientific American*, 284 (5), 34-43.

Caplan, P. (2003). *Metadata fundamentals for all librarians*. Chicago, IL: ALA Editions.

Duval, E., Hodgins, W., Sutton, S., & Weibel, S. (2002). Metadata principles and practicalities. *D-Lib Magazine*, 8 (4).

Feigenbaum, L., Herman, I., Hongsermeier, T., Neumann, E., & Stephens, S. (2007). The semantic web in  
action, *Scientific American*, 297 (6), 90-97. Retrieved from  
<http://jerome.stjohns.edu:81/login?url=http://search.ebscohost.com/jerome.stjohns.edu:81/login.aspx?direct=true&db=aph&AN=27431236&site=ehost-live>

Lagoze, C., Van de Sompel, H., Nelson, M., & Warner S. (Eds.) (2008). *The Open Archives Initiative Protocol for Metadata Harvesting*, Protocol Version 2.0 of 2002-06-14, Document Version 2008-12-07T20:42:00Z.  
Retrieved from <http://www.openarchives.org/OAI/openarchivesprotocol.htm>

Neville, L., & Lissonnet, S. (2005). Was CIMI too early? Dublin Core and museum information: metadata as  
cultural heritage data. In *Proceedings of the 2005 international conference on Dublin Core and metadata  
applications: Vocabularies in practice* (ISBN:8489315442).

Taylor, A. G. (1999). *The organization of information*. Englewood, CO: Libraries Unlimited, Inc.

Zeng, M. L., & Qin, J. (2008). *Metadata*. New York: Neal-Schuman.

Zeng, M. L. (1999). Metadata elements for object description and representation: A case report from a digitized historical fashion collection project. *Journal of the American Society for Information Science* 50(13), 1193-1208. Retrieved from [http://polaris.gseis.ucla.edu/gleazer/260\\_readings/Zeng.pdf](http://polaris.gseis.ucla.edu/gleazer/260_readings/Zeng.pdf)

**Instructional Time Requirements: 150 hours for 3 credits (10 hours per week for our 15 week semester)**

Asynchronous or synchronous Lecture

Assigned weekly reading

Weekly assignments (individual and group)

Active participation in online discussions

Research for semester-long projects (term papers, projects)

Presentations (online or face to face)

Academic Service-Learning projects (where appropriate)