

## 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*

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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)