

**Long Island University  
Palmer School of Library & Information Science**

**LIS763 Metadata For Digital Libraries**

**Spring 2014**

**SYLLABUS**

**Instructor:** Rick J. Block  
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**Course Description:**

This course provides students opportunities to learn, evaluate, and apply principles of metadata for a variety of digital resources. This course will cover metadata terminology, content and encoding schemes, applications of metadata standards for different purposes and environments, especially for digital libraries, museums, and other cultural heritage and scholarly digital repositories, as well as various approaches to metadata creation, storage, management, and dissemination, including harvesting and aggregating. Includes overviews of metadata applications including Dublin Core, Text Encoding Initiative (TEI), Metadata Object Description Schema (MODS), VRA Core, Categories for the Description of Works of Art (CDWA) and Cataloging Cultural Objects (CCO). Overview includes metadata formats; descriptive detail for different forms of material; choice and form of entry for creators; provision of authority control for creators; subject analysis, subject metadata, and thesauri. Additional topics include the Metadata Encoding and Transmission Standard (METS), metadata interoperability, metadata quality and OAI-PMH (Open Archives Initiative Protocol for Metadata Harvesting).

**Objectives:** At the conclusion of the course, students will be able to:

- Articulate the concepts of metadata for the description of and access to knowledge records
- Fluently apply current metadata terminology and concepts, including those related to major content and encoding schemes for digital libraries
- Analyze and critically apply different approaches to metadata creation, storage, management, and dissemination within different information communities for different purposes
- Critically analyze and compare different metadata standards and their applicability to different contexts, and to apply basic metadata quality metrics to assess the relative quality of different types of descriptive metadata
- Discuss how different kinds of metadata schemes and standards are currently being used to organize different kinds of resources within different information communities and contexts
- Create Dublin Core, TEI, MODS, VRA Core, CDWA, and CCO metadata
- Choose form of name for creators
- Understand principles of subject analysis and use of thesauri

**Grading:**

Homework assignments	50%
Complete 5 assignments designed to help you develop and apply knowledge and skills of metadata application. Each completed assignment counts for 10% of grade. <b>(DUE DATES IN BLACKBOARD CALENDAR)</b>	
Final Project	30%
For this assignment, you will research, select, customize, and defend your selection of a metadata format for a selected scenario. <b>(DUE May 7, 2014)</b>	
Exercises and discussion boards participation	20%
Complete 6 exercises and participate in discussion boards and blogs. <b>(DUE DATES FOR EXERCISES IN BLACKBOARD CALENDAR)</b>	

## *SCHEDULE AND READINGS*

### **Week of Jan. 20 and 27 Module 1 (Introduction to Metadata and XML)**

Introduction to Metadata  
Concepts in Metadata  
Introduction to XML

Read:

Schottlaender, Brian E.C., Why Metadata? Why Me? Why Now.  
<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/why.pdf>

Smiraglia, Richard P. "Introducing Metadata." *Cataloging and Classification Quarterly*. Vol. 40, no. ¾: p. 1-15.  
<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/smiraglia.pdf>

Greenberg, Jane. "Understanding Metadata and Metadata Schemes".  
*Cataloging and Classification Quarterly*. Vol. 40, no. ¾: p. 17-36.  
<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/greenberg.pdf>

Coyle, Karen. "Understanding Metadata and its Purpose." (2005). *Journal of Academic Librarianship* 31:2 (March 2005) 160-163. Preprint available online: <http://www.kcoyle.net/jal-31-2.html>

Elings, Mary W. and Günter Waibel. "Metadata for All: Descriptive Standards and Metadata Sharing across Libraries, Archives and Museums." *First Monday*, Vol. 12, no. 3 (March 2007).  
<http://firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/1628/1543>

Boiko. *Defining Data, Information, and Content: A CM Domain White Paper*.  
[http://www.metatorial.com/downloads/Boiko\\_Wp\\_DefiningDataInformationContent.pdf](http://www.metatorial.com/downloads/Boiko_Wp_DefiningDataInformationContent.pdf)

Doctorow , Cory. "Metacrap: Putting the torch to seven straw-men of the meta-utopia"  
<http://www.well.com/~doctorow/metacrap.htm>

Johnston, Pete. "Metadata Sharing and XML." In: *Good Practice Guide for Developers of Cultural Heritage Web Services*.  
<http://www.ukoln.ac.uk/interop-focus/gpg/Metadata/>

Yott, Patrick. "Introduction to XML." *Cataloging and Classification Quarterly*. Vol. 40, no. 3/4, p. 213-235.

<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/yott.pdf>

*Optionally read:*

"Understanding Metadata." Available online at:

<http://www.niso.org/standards/resources/UnderstandingMetadata.pdf>

Gilliland-Swetland, Anne. "Metadata—Where Are We Going?" *International Yearbook of Library and Information Management 2003-2004: Metadata Applications and Management*. G. E. Gorman, general editor. London: Facet, 2003.

<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/metadata2003.pdf>

Pitti, Daniel V. "Introduction to XML"

<http://jefferson.village.virginia.edu/~dvp4c/xmlintro.html>

### **Week of Feb. 3 Module 2 (Text Encoding Initiative (TEI)) (Complete TEI Exercise)**

Browse:

TEI: Yesterday's information tomorrow

<http://www.tei-c.org/>

TEI Lite

<http://www.tei-c.org/Guidelines/Customization/Lite/>

EEBO Tagging Cheat Sheet

<http://www.lib.umich.edu/tcp/docs/dox/cheat.html>

*Optionally read:*

Duguid, Paul. "Inheritance and Loss?: A Brief Survey of Google Books."

<http://firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/1972/1847>

Nunberg, Geoffrey. "Google's Book Search: A Disaster for Scholars" *Chronicle of Higher Education*. Aug. 31, 2009.

<http://chronicle.com/article/Googles-Book-Search-A/48245/>

Nunberg, Geoffrey. "Google Books: A Metadata Train Wreck."

<http://languagelog ldc.upenn.edu/nll/?p=1701>

Miller, Laura. "The Trouble with Google Books."

[http://www.salon.com/books/laura\\_miller/2010/09/09/google\\_books/index.html](http://www.salon.com/books/laura_miller/2010/09/09/google_books/index.html)

James, Ryan and Andrew Weiss. "An Assessment of Google Books' Metadata." *Journal of Library Metadata* 12(1) 2012.

<http://scholarspace.manoa.hawaii.edu/handle/10125/22228>

### **Week of Feb. 10 Module 3 (Dublin Core) (Complete Dublin Core Exercise)**

Dublin Core

Read:

Coleman, Anita S. "From Cataloging to Metadata: Dublin Core Records for the Library Catalog." *Cataloging and Classification Quarterly*. Vol. 40, no. ¾: p. 153-181.

<http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/coleman.pdf>

Nevile, Liddy, and Sophie Lissonnet. Was CIMI Too Early? Dublin Core and Museum Information: Metadata as Cultural Heritage Data. DCMI International Conference. 2005.

<http://dcpapers.dublincore.org/pubs/article/view/801/797>

Browse:

Hillmann, Diane. Using Dublin Core.

<http://dublincore.org/documents/usageguide/>

CDP Metadata Working Group Dublin Core Metadata Best Practices, Version 2.1.1, September 2006. (69 pages.) Online:

<http://www.mndigital.org/digitizing/standards/metadata.pdf>

### **Week of Feb. 17 Module 4 (Metadata Object Description Schema (MODS)) (Complete MODS Exercise)**

MODS

Read:

McCallum, Sally. "An introduction to the Metadata Object Description Schema (MODS)." *Library Hi Tech*. Vo. 22, no. 1:p. 82-88.

<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/mccallum.pdf>

Beall, Jeffrey. "Dublin Core: An Obituary." *Library Hi Tech News*. Sept./Oct. 2004.

<http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/dcobit.pdf>

Browse:

Digital Library Federation/Aquifer Implementation Guidelines for Shareable MODS Records

[https://wiki.dlib.indiana.edu/confluence/download/attachments/24288/DLFMODS\\_ImplementationGuidelines.pdf](https://wiki.dlib.indiana.edu/confluence/download/attachments/24288/DLFMODS_ImplementationGuidelines.pdf)

FAQ for MODS Guidelines Implementers

<http://wiki.dlib.indiana.edu/confluence/display/DLFAquifer/FAQ+for+MODS+Guidelines+Implementers>

MODS Application Profile for PALMM Materials

[http://palmm.fcla.edu/PALMM\\_participants/strucmeta/MODSApplicationProfile.pdf](http://palmm.fcla.edu/PALMM_participants/strucmeta/MODSApplicationProfile.pdf)

MODS (Metadata Object Description Schema)

<http://www.loc.gov/standards/mods/>

MODS Guidelines Levels of Adoption

<http://wiki.dlib.indiana.edu/confluence/display/DLFAquifer/MODS+Guidelines+Levels+of+Adoption>

Library of Congress MODS User Guidelines

<http://www.loc.gov/standards/mods/userguide/>

**Week of Feb. 24, Mar. 3 and 17 (Spring Break Week of Mar. 10) Module 5 (Describing Cultural Objects) (Complete CDWA Lite and VRA Core Exercises)**

Categories for the Description of Works of Art (CDWA)

VRA Core 4.0

Cataloging Cultural Objects

Read:

Baca, Murtha. "A Picture Is Worth a Thousand Words: Metadata for Art Objects and Their Visual Surrogates," in *Cataloging the Web: Metadata, AACR, and Marc21* (Lanham, MD: Scarecrow Press, 2001).

<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/MBaca.pdf>

Harpring, Patricia. "The Language of Images: Enhancing Access to Images by Applying Metadata Schemas and Structured Vocabularies." In: *Introduction to Art Image Access Issues, Tools, Standards, Strategies*. Edited by Murtha Baca. (Getty Research Institute, 2002).

[http://www.getty.edu/research/publications/electronic\\_publications/intro\\_aia/harpring.html](http://www.getty.edu/research/publications/electronic_publications/intro_aia/harpring.html)

Baca, Murtha. "Cataloging Cultural Objects and CDWA Lite: New Data Content and Data Format Standards for Art and Material Culture Information.

<http://digitalia.sbn.it/article/view/313/204>

Smiraglia, Richard P. "Content Metadata: An Analysis of Etruscan Artifacts in a Museum of Archeology." *Cataloging and Classification Quarterly*. Vol. 40, no. ¾: p. 135-151

<http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/smiraglia2.pdf>

Browse:

Categories for the Description of Works of Art

[http://www.getty.edu/research/publications/electronic\\_publications/cdwa/index.html](http://www.getty.edu/research/publications/electronic_publications/cdwa/index.html)

VRA Core 4.0

<http://www.vraweb.org/projects/vracore4/index.html>

### **Week of Mar. 24 Module 6 (Creator Element, Authority Control and Authority Records)**

Creator Element  
Authority Control  
Authority Records

Read:

Cwiok, Jennifer. "The Defining Element: A Discussion of the Creator Element Within Metadata Schemas." *Cataloging and Classification Quarterly*. Vol. 40, no. ¾: p. 103-133.

<http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/cwiok.pdf>

Bennett, Denise and Priscilla Williams. "Name Authority Challenges for Indexing and Abstracting Databases." *Evidence Based Library and Information Practice*. 2006

<http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/bennettname.pdf>

Beall J. Metadata for Name Disambiguation and Collocation. *Future Internet*. 2010; 2(1):1-15.

<http://www.mdpi.com/1999-5903/2/1/1/>

Dewhurst, Basil. "People Australia: a Topic-Based Approach to Resource Discovery."

<http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/dewhurst.pdf>

Baca, Murtha. "Fear of Authority? Authority Control and Thesaurus Building for Art and Material Culture Information." *Cataloging and Classification Quarterly*. 38:3-4 (2004)

<http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/bacafear.pdf>

Toward a Metadata Generation Framework: A Case Study at Johns Hopkins University.

<http://www.dlib.org/dlib/november04/choudhury/11choudhury.html>

Browse:

Metadata Authority Description Schema (MADS)

<http://www.loc.gov/standards/mads/>

Review of the Current Landscape in Relation to a Proposed Name Authority Service for UK Repositories of Research Outputs

<http://names.mimas.ac.uk/files/LandscapeReport26Jun2008.pdf>

**Week of Mar. 31 and Apr. 7 Module 7 (Subject Analysis, Ontologies and Subject Metadata) (Complete Build Your Own Ontology Exercise)**

Subject Metadata

Read:

Shirky, Clay. "Ontology is Overrated: Categories, Links and Tags."

[http://www.shirky.com/writings/ontology\\_overrated.html](http://www.shirky.com/writings/ontology_overrated.html)

Merholz, Peter. 2005. Clay Shirky's Viewpoints are Overrated.

Peterme.com. <http://www.peterme.com/archives/000558.html>

Chan, Lois Mai. "A Faceted Approach to Subject Data in the Dublin Core Metadata Record." *Journal of Internet Cataloging* Vol. 4, no. 1/2: p. 35-47.

<http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/chan.pdf>

Leise, Fred, Karl Fast, Mike Steckel. (2002). "What Is a Controlled Vocabulary?" *Boxes and Arrows*, 16 December 2002:

<http://boxesandarrows.com/what-is-a-controlled-vocabulary/>



Leise, Fred, Karl Fast, Mike Steckel. (2003). "Synonym Rings and Authority Files." *Boxes and Arrows*, 26 August 2003:  
<http://boxesandarrows.com/synonym-rings-and-authority-files/>

Layne, Sara Shatford "Subject Access to Art Images." In: *Introduction to Art Image Access Issues, Tools, Standards, Strategies*. Edited by Murtha Baca. (Getty Research Institute, 2002).  
[http://www.getty.edu/research/publications/electronic\\_publications/intro\\_aia/layne.html](http://www.getty.edu/research/publications/electronic_publications/intro_aia/layne.html)

"The Metadata IS the Interface: Better Description for Better Discovery of Archives and Special Collections"  
<http://www.oclc.org/programs/publications/reports/2009-06.pdf>

Slawsky, Donna. "Building a Keyword Library for Description of Visual Assets: Thesaurus Basics." *Journal of Digital Asset Management* (2007) 3, 130–138.  
<http://www.palgrave-journals.com/dam/journal/v3/n3/full/3650074a.html>

Optionally read:

Hodge, Gail. *Systems of Knowledge Organization for Digital Libraries: Beyond Traditional Authority Files*.  
<http://www.clir.org/pubs/reports/pub91/contents.html>

Anderson, James D. and Melissa A. Hofman. "A Fully Faceted Syntax for Library of Congress Subject Headings." *Cataloging & Classification Quarterly*. Vol. 3(1): p. 7-38.  
<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/anderson.pdf>

Kroski, Ellyssa. *The Hive Mind: Folksonomies and User-Based Tagging*.  
<http://infotangle.blogspot.com/2005/12/07/the-hive-mind-folksonomies-and-user-based-tagging/>

Guy, Marieke and Emma Tonkin. "Folksonomies: Tidying up Tags?" *D-Lib Magazine*. Vol. 12, no. 1 (Jan. 2006)  
<http://www.dlib.org/dlib/january06/guy/01guy.html>

Dye, Jessica. "Folksonomy: A Game of High-tech (and High-stakes) Tag" *EContent*. Vol. 29, iss. 3 (Apr 2006).  
<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/dye.pdf>

Ogan, Chiara. "Tagging vs. Cataloging: What It's All About."  
<http://www.adaptivepath.com/ideas/e000695>

Tonkin, Emma, et al. "Collaborative and Social Tagging Networks." *Ariadne*. Issue 54  
<http://codabox.org/1/1/ariadne54.pdf>

Mai, Jens-Erik. "The Future of General Classification." *Cataloging & Classification Quarterly*. Vol. 37, No. 1/2, 2003, pp. 3-12;.  
[http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/mai\\_future.pdf](http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/mai_future.pdf)

**Week of Apr. 14 and 21 Module 8 (Administrative Metadata and Conceptual**

**Models)**

Rights Metadata

PREMIS

METS

Read:

Coyle, Karen. "Descriptive Metadata for Copyright Status." *First Monday*. Vol 10: no. 10 (Oct. 2005)  
<http://firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/1282/1202>

Cantara, Linda. "METS: the Metadata Encoding and Transmission Standard." *Cataloging and Classification Quarterly*. Vol. 40, no. ¾: p. 237-253.  
<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/cantara.pdf>

Wagner, Gretchen. "Sharing Visual Arts Images for Education Use: Finding a New Angle of Repose." *EDUCAUSE review*. Nov./Dec. 2007  
<http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/Wagner.pdf>

Whalen, Maureen. "Rights Metadata Made Simple." In: Baca, Murtha (editor). *Introduction to Metadata*. Second edition. Los Angeles: Getty Research Institute, 2008.  
[http://www.getty.edu/research/publications/electronic\\_publications/intrometadata/rights.pdf](http://www.getty.edu/research/publications/electronic_publications/intrometadata/rights.pdf)

Optionally read:

Whalen, Maureen. "Developing a Rights Metadata Dictionary for Digital Surrogates." *Journal of Library Metadata*. 9:1-2, 15-35.  
<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/whalen.pdf>

Bailey, Charles W. "Strong Copyright + DRM + Weak Net Neutrality = Digital Dystopia?" *Information Technology and Libraries*. 25:3 (Sept. 2006): 116-127.  
<http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/bailey.pdf>

Kho, Nancy Davis. "Know Your Rights: Keeping Up With Copyright In The Digital Age." *EContent* 30:7 (2007): 26-31.

<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/kho.pdf>

Browse:

Understanding PREMIS

<http://www.loc.gov/standards/premis/understanding-premis.pdf>

CDL Rights Management Framework

<http://www.cdlib.org/inside/projects/rights/>

METS (Metadata Encoding & Transmission Standard)

<http://www.loc.gov/standards/mets/>

textMD: Technical Metadata for Text

<http://www.loc.gov/standards/textMD/>

**Week of Apr. 28 and May 5 (Metadata Interoperability and Metadata Quality)**

Metadata Interoperability

Metadata Enhancement and OAI-PMH

Application Profiles

Decisions for Your Digital Collections

Metadata Workflows

Read:

Shreeves, Sarah L., Jenn Riley and Liz Milewicz. "Moving Towards Shareable Metadata."

<http://firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/1386/1304>

Riley, Jenn ... [et al.]. "Promoting Shareability: Metadata Activities of the DLF Aquifer Initiative." *Journal of Library Metadata*. 8:3, 221-247.

<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/riley.pdf>

Beisler, Amalia and Glee Willis. "Beyond Theory: Preparing Dublin Core Metadata for OAI-PMH Harvesting." *Journal of Library Metadata*. 9:1-2, 65-97.

<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/beisler.pdf>

Jackson, Amy S. ... [et al.]. "Dublin Core Metadata Harvested Through OAI-PMH." *Journal of Library Metadata*. 8:1, 5-21.

<http://www.columbia.edu/cu/libraries/inside/units/bibcontrol/osmc/jackson.pdf>

*Optionally* read:

De Groat, Greta. Future Directions in Metadata Remediation for Metadata Aggregators.

<http://www.diglib.org/aquifer/dlf110.pdf>

Naomi Dushay and Diane I. Hillmann, 2003. "Analyzing metadata for effective use and re-use," *DC-2003: Proceedings of the International DCMI Metadata Conference and Workshop*, pp. 161-170.

[http://www.siderean.com/dc2003/501\\_Paper24.pdf](http://www.siderean.com/dc2003/501_Paper24.pdf)

Bell, J., et. al. "Using OAI-PMH and METS for exporting metadata and digital objects between repositories." *Program* v. 40 no. 3 (2006) p. 268-76.

<http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/bell2.pdf>

Liu Xiaoming. , et. al. "Lessons Learned with Arc, an OAI-PMH Service Provider." *Library Trends* v. 53 no. 4 (Spring 2005) p. 590-60.

<http://www.columbia.edu/cu/libraries/inside//units/bibcontrol/osmc/liu.pdf>

Browse:

Metadata Standards Crosswalk (Getty)

[http://www.getty.edu/research/conducting\\_research/standards/intrometadata/crosswalks.html](http://www.getty.edu/research/conducting_research/standards/intrometadata/crosswalks.html)

Dublin Core Library Application Profile

<http://dublincore.org/documents/library-application-profile/>

Descriptive Metadata Guidelines for RLG Cultural Materials

[http://www.oclc.org/programs/ourwork/past/culturalmaterials/RLG\\_desc\\_metadata.pdf](http://www.oclc.org/programs/ourwork/past/culturalmaterials/RLG_desc_metadata.pdf)

Metadata for Digital Content (Library of Congress)

<http://www.loc.gov/standards/mdc/>

California Digital Library Descriptive Metadata Guidelines

<http://www.cdlib.org/inside/diglib/guidelines/dmdreqs.html>

Best Practices for OAI Data Provider Implementations and Shareable Metadata

<http://webservices.itcs.umich.edu/mediawiki/oaibp/?PublicTOC>

RLG Programs Descriptive Metadata Practices Survey Results

<http://www.oclc.org/programs/publications/reports/2007-03.pdf>

RLG Programs Descriptive Metadata Practices Survey Results: Data Supplement

<http://www.oclc.org/programs/publications/reports/2007-04.pdf>

What We've Learned from the RLG Partners Metadata Creation Workflows Survey

<http://www.oclc.org/programs/publications/reports/2009-04.pdf>