Digital Librarianship in LIS Education

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Talk outline

- I. Scope of digital librarianship
- II. Core competencies
- III. Curriculum development
- IV. Other digital library education programs
- V. Resources for current awareness
- VI. Examples from UIUC

I. Scope of Digital Librarianship

Definition:

Digital libraries are organizations that provide the resources, including the specialized staff, to select, structure, offer intellectual access to, interpret, distribute, preserve the integrity of, and ensure the persistence over time of collections of digital works so that they are readily and economically available for use by a defined community or set of communities.

[Digital Library Federation http://www.diglib.org/about/dldefinition.htm]

II. Core Competencies

- As part of our digital library education grant project, we conducted a survey of 128 practitioners involved in digital library work to determine knowledge and skills judged to be very important in a curriculum preparing students to work with digital collections.
- Survey results divided the knowledge and skills into three areas: technical, digital content management, and organization/management.

II. Core Competencies (cont.)

Technical skills

Information architecture and design

User interface design

Digital imaging

Markup languages

Database design and implementation

Content management systems

II. Core Competencies (cont.)

Digital content management skills

Principles of cataloging and metadata

Digital preservation

Storage for effective/efficient retrieval

Authentication of information

User's search strategies for obtaining digital information

Standards for information organization

II. Core Competencies (cont.)

Organization/management skills

Project management

Change management

Managing and communicating with technical staff

Collaborating with others face-to-face

Collaborating with others virtually

Understanding organizations in which digital content resides

Understanding the information lifecycle of digital objects

Methods of evaluation and assessment Legal issues in digital collection management

III. Curriculum Development

Certificate of Advanced Study in Digital Libraries (http://www.lis.illinois.edu/academics/programs/cas-dl)

Students will gain advanced-level knowledge of digital asset management; information and collection modeling; design of human-centered, digitally mediated information services; and information policy. The program assumes existing MS-level knowledge of Library and Information Science, including basic information organization; indexing and cataloging; information needs and uses; reference and user services; and libraries-in-society.

III. Curriculum Development (cont.)

Course requirements include:

- 1) four (4) required CAS-DL core courses
- 2) four (4) elective courses
- 3) LIS593 "C.A.S. Project." The project must entail a Digital Libraries-related project defined and monitored in consultation with the student's CAS advisor.

III. Curriculum Development (cont.)

Core courses:

- LIS453 "Systems Analysis and Management" Covers how to evaluate, select and manage the information systems that will be used in the daily operation of libraries and information centers. Includes the systems used by technical staff and the information consumers.
- LIS590DI "Introduction to Digital Libraries" Covers principles and comparative case studies of Digital Libraries and content management systems, including creation, organization, ongoing management, archiving, and preservation of digital assets.
- LIS590IM "Information Modeling" Covers issues of Document Modeling and Collection Modeling in an integrated way.
- LIS590MD "Metadata in Theory & Practice" Covers the design and application of metadata schema in a variety of settings, as well as examining issues of interoperability and the social and political factors influencing the development and implementation of metadata schema.

III. Curriculum Development (cont.)

Examples of elective courses:

- Electronic Publishing
- Implementation of Information Storage and Retrieval Systems
- Interfaces to Information Systems
- Information Policy
- Foundations of Data Curation
- Understanding Multimedia Information

IV. Other Digital Library Education Programs

University of Arizona

Graduate Certificate Program in Digital Information Management

http://digin.arizona.edu/

6 courses, offered online

Syracuse University

Certificate of Advanced Study in Digital Libraries

http://ischool.syr.edu/academics/graduate/mls/digitallibrarie s/index.aspx

IV. Other Digital Library Education Programs (cont.)

Drexel University
 Post-Master's Digital Libraries Specialist Program
 http://www.drexel.com/online-degrees/information-sciences-degrees/spec-dl/index.aspx

 International Master in Digital Library Learning http://dill.hio.no

DILL is a two-year Master Programme for information professionals who intend to work in the complex world of digital libraries.

DILL is offered in cooperation between Oslo University College (Norway), Tallinn University (Estonia), and Parma University (Italy). Students will spend at least one semester at each institution

IV. Other Digital Library Education Programs (cont.)

 Digital Libraries Curriculum Development http://curric.dlib.vt.edu/

This project was funded by the National Science Foundation and builds upon a collaboration between Virginia Tech and the University of North Carolina, Chapel Hill.

Developed modules that can be used to develop lessons on key digital library topics, such as digitization, metadata, and image retrieval.

http://curric.dlib.vt.edu/modDev/modDev.html

V. Resources for Current Awareness

Journal
 D-Lib Magazine http://www.dlib.org

Conferences and Workshops

Listings: http://www.dlib.org/groups.html

Associations and Organizations
 Digital Library Federation http://www.diglib.org

American Society for Information Science & Technology Special Interest Group on Digital Libraries

http://www.asis.org/SIG/sigdl/

VI. Examples from UIUC

Digital Content Creation

http://www.library.illinois.edu/dcc/index.html

Best Practices for Creating Digital Collections

http://www.library.illinois.edu/dcc/bestpractices/contents.html

IDEALS: Illinois Digital Environment for Access to Learning and Scholarship

http://www.ideals.illinois.edu/

IDEALS collects, disseminates, and provides persistent and reliable access to the research and scholarship of faculty, staff, and students at the University of Illinois at Urbana-Champaign. Faculty, staff, and graduate students can deposit their research and scholarship.