



THE UNIVERSITY OF BRITISH COLUMBIA

iSchool (Library, Archival & Information Studies)  
Faculty of Arts

We acknowledge that we are on the traditional, ancestral and unceded territory of the hən̓q̓əmin̓əm̓ speaking Musqueam people.

**The mission of UBC iSchool is to enhance humanity's capacity to engage information in effective, creative and diverse ways, through innovative research, education and design.**

### **ARST 556M / LIBR 581: Digital Libraries and Archives – Course Syllabus (3)**

<b>Program:</b>	MLIS, MAS, Dual MAS/MLIS
<b>Year:</b>	Summer 2018 Term 1
<b>Course Schedule:</b>	Tuesdays and Thursdays from 1:00 pm to 3:50 pm
<b>Location:</b>	Terrace Lab
<b>Instructor:</b>	Richard Arias-Hernandez
<b>Office location:</b>	IKBLC 484
<b>Office phone:</b>	604-822-1458
<b>Office hours:</b>	Wednesdays from 10:00 am to 12:00 pm or by appointment
<b>E-mail address:</b>	<a href="mailto:richard.arias@ubc.ca">richard.arias@ubc.ca</a>
<b>Learning Management Site:</b>	<a href="https://canvas.ubc.ca/">https://canvas.ubc.ca/</a>

**Course Goal:** The goal of this course is to provide students with the theoretical and practical knowledge required to understand the processes and techniques involved in creating, organizing, presenting, and using information in digital environments.

#### **Course Objectives:**

##### **Upon completion of this course students will be able to:**

1. Outline the major components of a digital library/archive [1.4, 4.1]\*
2. Use current technologies associated with the development and implementation of digital libraries/archives [1.1, 1.2, 1.3]\*
3. Analyze issues related to curation of and access to digital resources [1.4, 4.1]\*
4. Apply a critical perspective in analyzing current digital library/archive efforts [1.4, 2.1, 3.1]\*
5. Analyze the role, potential, and challenges of digital libraries/archives in relation to societal needs and concerns [1.1, 3.1]\*
6. Design a digital library/archive solution to satisfy users' information needs and information organizations' mission and goals [1.1, 1.3, 2.1, 3.1, 3.2]\*

\* Course objectives are stated in terms of student learning outcomes and reference the iSchool Statement on Graduate Competencies: <http://slais.ubc.ca/programs/about-department/graduate-competencies/>

#### **Course Topics:**

- Digital libraries & archives - definitions and examples
- Resources - multimedia and text
- Digital collection development

- Privacy and Intellectual Property Rights
- Information organization and representation
- Metadata
- Resource discovery
- Information needs and information seeking
- Digital library/archive services
- Digital preservation
- Digital library & archive systems and technology platforms
- Design and evaluation of digital libraries & archives

### Prerequisites:

MLIS and Dual MAS/MLIS: Completion of MLIS Core or permission of SLAIS Graduate Advisor  
 MAS: completion of MAS core or permission of the SLAIS Graduate Advisor

**Format of the course:** Class sessions will combine short lectures, student-led class colloquia discussing main ideas and issues raised by weekly topics, guest speakers, and technology workshops/demos in-class or at the Terrace Lab.

### Required Reading:

- Course Textbook:
  - Xie, I. and Matusiak, K. (2016). *Discover Digital Libraries: Theory and Practice*. New York: Elsevier. Book can be acquired at UBC Bookstore. Hardcover or eBook copies can be bought online. One copy of the book will be available outside of my office on reserve for local consultation at SLAIS only.
- Book chapters:
  - Calhoun, K. (2014). Chapters 1 and 8, In: *Exploring Digital Libraries: Foundations, Practice, Prospects*, pp. 1-26. London, UK: Facet Publishing. [Book on reserve at IK Barber Library, Chapter 1 is available online at: <http://www.facetpublishing.co.uk/downloads/file/calhoun-ch1.pdf>]
  - Janes, J. (2003). Ch. 4: "Technology". In: *Introduction to Reference Work in the Digital Age*. pp. 113-138. New York: Neal-Schuman. [Book on reserve at IK Barber Library]
- Journal Articles, Web Articles/Tutorials:
  - Arms, W. Y. (2001). "Uniform Resource Names: Handles, PURLs, and Digital Object Identifiers." *Communications of the ACM*, 44(5), pp. 68. Available online at: <http://www.cs.cornell.edu/wya/papers/cacm-2001.pdf>
  - Bearman, D. (2007) "Digital Libraries." *Annual Review of Information Science and Technology*, 41(1), pp. 223–272. Available online from UBC library.
  - Brown, M. (2014). "Is Almetrics and Acceptable Replacment for Citation Counts and the Impact Factor?. *The Serials Librarian*, Vol 67, No. 1, pp. 27-30. Available at: <https://www.tandfonline.com/doi/abs/10.1080/0361526X.2014.915609>
  - Candela, L. et al. (2011). *Digital Library Manifesto*. DL.org. Available at: [http://www.dlorg.eu/uploads/Booklets/booklet21x21\\_manifesto\\_web.pdf](http://www.dlorg.eu/uploads/Booklets/booklet21x21_manifesto_web.pdf)
  - Conway, P. (2010). "Preservation in the Age of Google: Digitization, Digital Preservation, and Dilemmas." *The Library Quarterly*, 80(1), pp. 61-79. Available online from UBC library.
  - Erickson, A. (2014). "The Next Chapter for Urban Libraries is Here: How the fustiest urban amenity is rewriting its future." *NextCity*. Available online at: <https://nextcity.org/features/view/what-does-a-library-without-books-look-like>
  - Gazan, R. (2008). "Social annotations in digital library collections." *D-Lib Magazine* 14(11/12). Available at: <http://dlib.org/dlib/november08/gazan/11gazan.html>
  - Head, A. and Eisenberg, M.B. (2010). "Truth To Be Told: How College Students Evaluate and Use Information in the Digital Age." *Information School*, University of

- Washington. Available at:  
<http://web20kmg.pbworks.com/f/How+College+Students+evaluate+information+Digital+Age+2010.pdf>
- Hirtle, P.B. (2012). "When Is 1923 Going to Arrive and Other Complications of the U.S. Public Domain." Searcher: The Magazine for Database Professionals. 20. Available at: <https://ecommons.cornell.edu/handle/1813/30861>
  - Holley, R. (2010). "Crowdsourcing: How and why should libraries do it?" D-Lib Magazine 16(3/4). Available at: <http://www.dlib.org/dlib/march10/holley/03holley.html>
  - Jeng, J. (2005). "What is Usability in the Context of the Digital Library and How Can It Be Measured?" Information Technology and Libraries, 24(2), pp. 3-12. Available at: <http://ejournals.bc.edu/ojs/index.php/ital/article/view/3365>
  - Julie Kelly and Linda Eells (2016). "Institutional Repositories: Home for Small Scholarly Journals?" D-Lib Magazine 22(5/6), May/June 2016. Available at: <http://dlib.org/dlib/may16/kelly/05kelly.html>
  - Lynch, C. (2013). "Ebooks in 2013." American Libraries: E-content Supplement to June 2013, pp.12-16. Available at: <http://www.americanlibrariesmagazine.org/article/ebooks-2013>
  - Mayernik, M. S., Phillips, J. and Nienhouse E. (2016). "Linking Publications and Data: Challenges, Trends, and Opportunities." D-Lib Magazine 22(5/6) , May/June 2016. Available at: <http://dlib.org/dlib/may16/mayernik/05mayernik.html>
  - Marmor, M. (2006) The ARTstor Digital Library: a case study in collection building. *Collection Building*, 25(3), 95-99. Emerald. Available at: <http://www.emeraldinsight.com/doi/full/10.1108/01604950610701037>
  - Monnich, M. and Spiering, M. (2008). "Adding value to the library catalog by implementing a recommendation system." D-Lib Magazine 14(5/6). Available at: <http://www.dlib.org/dlib/may08/monnich/05monnich.html>
  - Ooghe, B. and Moreels, D. (2009). "Analysing selection for digitization: Current practices and common initiatives." D-Lib Magazine 15(9/10). Available at: <http://www.dlib.org/dlib/september09/ooghe/09ooghe.html>
  - Rosenthal, D.S.H., Robertson, T., Lipkis, T., Reich, V., and Morabito, S. (2005). Requirements for digital preservation systems: a bottom-up approach. D-Lib Magazine 11(11). Available at: <http://www.dlib.org/dlib/november05/rosenthal/11rosenthal.html>
  - Vakkari, P. (2011). "Comparing Google to a digital reference service for answering factual and topical requests by keyword and question queries." *Online Information Review*, 35(6), pp.928 – 941. Available online at UBC library.
  - Van den Branden, R., Terras, M., and Vnahoutte, E. TEI by Example. <http://www.teibyexample.org/>. Tutorial 0: Introduction to Text Encoding and the TEI is available at: <http://www.teibyexample.org/modules/TBED00v00.htm>
  - **Reports:**
    - American National Standards Institute (ANSI) and National Information Standards Organization (NISO) (2012). Z.39.85-2012: The Dublin Core Metadata Element Set. Available at: [http://www.niso.org/apps/group\\_public/download.php/10256/Z39-85-2012\\_dublin\\_core.pdf](http://www.niso.org/apps/group_public/download.php/10256/Z39-85-2012_dublin_core.pdf)
    - ALCTS – Association for Library Collections and Technical Services. Preservation and Reformatting Section. (2013) Minimum Digitization Capture Recommendations. American Library Association. Available at: <http://www.ala.org/alcts/resources/preserv/minimum-digitization-capture-recommendations>
    - RUSA – Reference and User Services Association. MARS Digital Reference Guidelines Ad Hoc Committee. (2004). Guidelines for Implementing and Maintaining Virtual Reference Services. Available online at: <http://www.ala.org/rusa/resources/guidelines/virtrefguidelines>

## Course Assignments:

Assignment Name	Due Date	Weight	Graduate Competencies
Digital Lib/Archive News	Various dates	10 %	1.4, 2.1, 2.2, 3.1
Short paper 1	May 22	10 %	1.4, 2.1
Short paper 2	May 31	15 %	1.4, 2.1
Issues paper	June 12	25 %	1.4, 2.1
Case Scenario	June 21	30 %	1.1, 1.3, 2.1, 3.1, 3.2
Participation	Throughout	10 %	2.1, 5.1

## Course Schedule:

Date	Topic	Reading	Assignment Due
Session 1 May 15	OVERVIEW (I)  Introduction to course History of digital libraries and digital library initiatives	<i>Xie &amp; Matusiak (2016) Ch. 1</i> Erickson (2014)	
Session 2 May 17	OVERVIEW (II)  Conceptual frameworks, theories, definitions Digital Library Exemplars	Bearman (2007) Candela et al. (2011)	
Session 3 May 22	DIGITAL OBJECTS (I)  Text and still images TEI, <i>TEI Lab</i>	<i>Xie &amp; Matusiak (2016) Ch.3</i> Ron Van den Branden et al. (2014): Tutorial 0 Lynch (2013)	<b>Short Paper 1 Due</b>
Session 4 May 24	DIGITAL OBJECTS (II)  Audio and multimedia	<i>Xie &amp; Matusiak (2016) Ch.4</i> ALCTS (2013)	
Session 5 May 29	DIGITAL COLLECTION DEVELOPMENT  Collection development, Selection policies, IPR.	<i>Xie &amp; Matusiak (2016) Ch. 2</i> Ooghe and Moreels (2009) Hirtle (2012) Marmor (2006)	
Session 6 May 31	INFORMATION / KNOWLEDGE ORGANIZATION  Information architecture Unique identifiers Metadata, <i>ExifTool Lab</i>	<i>Xie &amp; Matusiak (2016) Ch. 5</i> ANSI/NISO (2012) Arms (2001)	<b>Short Paper 2 Due</b>

Date	Topic	Reading	Assignment Due
Session 7 June 5	USER BEHAVIOUR/ INTERACTIONS  Information needs/ relevance, Search strategy, information seeking behavior, <i>Islandora Lab</i>	<i>Xie &amp; Matusiak(2016) Ch. 8</i> Head and Eisenberg (2010) [Skim read]	
Session 8 June 7	SERVICES  Virtual reference, education services, recommender systems <i>Omeka Lab</i>	<i>Janes (2003), Ch. 4</i> RUSA (2004) Gazan (2008) Vakkari (2011) Monnich and Spiering (2008)	
Session 9 June 12	INSTITUTIONAL REPOSITORIES  <i>DSpace Lab</i>	<i>Calhoun (2014) Ch.8</i> Kelly and Eells (2016) Mayernik et al. (2016)	<b>Issues Paper Due</b>
Session 10 June 14	DIGITAL PRESERVATION  <i>Archivematica Demo</i>	<i>Xie &amp; Matusiak(2016) Ch. 9</i> Conway (2010) Rosenthal et al. (2005)	
Session 11 June 19	TECHNOLOGY AND EVALUATION  DLMS Selection Evaluation	<i>Xie &amp; Matusiak(2016) Ch. 6 &amp; 10</i> Jeng (2005)	
Session 12 June 21	NEW DEVELOPMENTS AND CHALLENGES	<i>Xie &amp; Matusiak(2016) Ch. 11</i> Holley (2010) Brown (2014)	<b>Case Scenario is Due</b>

**Attendance:** The calendar states: “Regular attendance is expected of students in all their classes (including lectures, laboratories, tutorials, seminars, etc.). Students who neglect their academic work and assignments may be excluded from the final examinations. Students who are unavoidably absent because of illness or disability should report to their instructors on return to classes.” Up to two excused absences are allowed with prior notification to me. Additional absences will require a note from a health professional or Access and Diversity. Failure to provide this documentation could result in a lower course mark.

**Evaluation:** All assignments will be marked using the evaluative criteria given on the [SLAIS web site](#).

**Access & Diversity:** Access & Diversity works with the University to create an inclusive living and learning environment in which all students can thrive. The University accommodates students with disabilities who have registered with the Access and Diversity unit: [<https://students.ubc.ca/about-student-services/access-diversity>]. You must register with the Disability Resource Centre to be granted special accommodations for any on-going conditions.

**Religious Accommodation:** The University accommodates students whose religious obligations conflict with attendance, submitting assignments, or completing scheduled tests and examinations. Please let your instructor know in advance, preferably in the first week of class, if you will require any accommodation on these grounds. Students who plan to be absent for family obligations, or other similar commitments, cannot assume they will be accommodated, and should discuss with the instructor before the course drop date. UBC policy on Religious Holidays: <http://equity.ubc.ca/days-of-significance-calendar/>

## **Academic Integrity**

### Plagiarism

The Faculty of Arts considers plagiarism to be the most serious academic offence that a student can commit. Regardless of whether or not it was committed intentionally, plagiarism has serious academic consequences and can result in expulsion from the university. Plagiarism involves the improper use of somebody else's words or ideas in one's work. The UBC policy on Academic Misconduct is available here: <http://www.calendar.ubc.ca/Vancouver/index.cfm?tree=3,54,111,959>.

It is your responsibility to make sure you fully understand what plagiarism is. Many students who think they understand plagiarism do in fact commit what UBC calls "reckless plagiarism." The UBC Learning Commons has a resource page on how to avoid plagiarism, with policies on academic integrity and misconduct found here: <http://learningcommons.ubc.ca/resource-guides/avoid-plagiarism/>

If after reading these materials you still are unsure about how to properly use sources in your work, please ask your instructor for clarification.

**Canvas:** Canvas, UBC's e-learning system <https://canvas.ubc.ca/> will be used to organize class resources, slides, and additional material. It will also be used to manage assignments, grades, and in-class exercises. Make sure that you check the course space in Connect constantly for announcements, resources, assignments, feedback and grades.