

Syllabus Format – Graduate Courses

Department: Department of Library and Information Science

Course Number and Title: LIS 258 Museum Informatics

Bulletin Description: [25 words maximum]

This course introduces how technical innovations influence the social world of museums by exploring information technology and modern information systems in museum environment.

Prerequisite(s):

None

Co-requisite(s):

None

Course Objectives:

- **Objective 1:** To equip Cultural Heritage Information Professionals with the basic concepts and terminology of museum informatics
 - **Learning Outcome:** Upon completion of this course students will be able to demonstrate knowledge of the basic concepts and terminology of museum informatics.
- **Objective 2:** To provide Cultural Heritage Information Professionals with the skill-sets necessary to critically analyze and assess the impact of information science & technology on museums.
 - **Learning Outcome:** Upon completion of this course students will be able to critically analyze and assess the impact of information science and technology on museums.
- **Objective 3:** To equip future Cultural Heritage Information professionals with basic skill-sets to effectively deal with challenges within the field of informatics as they develop digital collections, including information organization & access, digitization & computer automation, and standards for data sharing.
 - **Learning Outcome:** Upon completion of this course students will be able to define and provide examples of the challenges facing Cultural Heritage Information Professionals as they develop digital collections, including information organization & access, digitization & computer automation, and standards for data sharing.
- **Objective 4:** To provide Cultural Heritage Information Professionals with the ability to evaluate the social impact of museum technologies on museum professionals, from the perspectives of museum-museum collaborations, museum-school educational outreach, and museum-scholar research activities.
 - **Learning Outcomes:** Upon completion of this course students will be able to critically analyze the social impact of museum technologies on museum professionals, from the perspectives of museum-museum collaborations, museum-school educational outreach, and museum-scholar research activities.
- **Objective 5:** To provide Cultural Heritage Information Professionals with an opportunity to explore the social impact of museum technologies on museum visitors, taking into consideration such issues as multimedia exhibits in museums, virtual museums online, and pervasive computing devices.

- **Learning Outcome:** Upon completion of this course students will be able to critically analyze the social impact of museum technologies on museum visitors, taking into consideration such issues as multimedia exhibits in museums, virtual museums online, and pervasive computing devices.
- **Objective 6:** To provide Cultural Heritage Information Professionals with an opportunity to explore the modern museum as an information environment, understanding such issues as intellectual property, copyright, and integrated collections management systems.
 - **Learning Outcome:** Upon completion of this course students will understand the modern museum as an information environment by engaging in such issues as intellectual property, copyright, and integrated collections management systems.

Program Goals and Outcomes:

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.

4A) Acquire, apply, analyze and assess information, communication, assistive, and other technological skills related to resources, service delivery, professionalism, efficacy, and cost-efficiency of current technologies and relevant technological improvements.

Units of Instruction:

Date	Topic	Assignments
Week 1	<p><u>WHAT IS MUSEUM INFORMATICS?</u></p> <ul style="list-style-type: none"> ➤ <i>First Day of Classes</i> <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Marty (Text Book, Ch.1, pp. 3-8) ➤ Marty (2012) ➤ Freitag (1987) <p>Recommended Readings:</p> <ul style="list-style-type: none"> ➤ Misunas & Urban (2010) ➤ Ellin (1969) ➤ Griffiths et al. (2007) ➤ Marty (2010) 	<p><u>Student-Museum Partnership Assignment</u> (5pts)</p> <p><u>Museum Informatics Pre-Reflection</u> (5pts)</p> <p><u>Museum Informatics Poster Presentation</u> (10pts)</p> <p><u>http://www.stjohns.edu/research/research-month</u></p>
Week 2	<p><u>THE INFORMATION PROFESSION IN MUSEUMS</u></p> <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Marty (TextBook, Ch.18, pp. 269-274) ➤ Marty (2007a) <p>Recommended Readings:</p> <ul style="list-style-type: none"> ➤ Given & McTavish (2010) ➤ Trant (2009) ➤ Marty (2005) ➤ Marty (2007b) ➤ Koot (2001) 	<p><u>Copyright Assignment</u> (5pts)</p>

<p>Week 3</p>	<p><u>INFORMATION MANAGEMENT SYSTEMS</u></p> <p>Additional Presentation:</p> <ul style="list-style-type: none"> ➤ <u>Why We Code</u> <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Peacock (TextBook Ch. 5 pp. 59-76) ➤ Marty (TextBook Ch.6 pp. 79-84) ➤ Sully (2010) ➤ Goldstein & Sully (2012) <p>Recommended Readings:</p> <ul style="list-style-type: none"> ➤ Abbott (2010, June 15) ➤ CHIN (2011) ➤ CHIN (2012) ➤ Parry (2007) ➤ Neilson (2010) ➤ Misunas (2010) ➤ Zorich (2008) ➤ Goodman et al. (2007) ➤ Wilde & Mann (2010) ➤ Pfaff (1994) ➤ NINCH (2002) <p>Useful Links/Collection Management System Examples:</p> <ul style="list-style-type: none"> ➤ <u>http://www.artstor.org/index.shtml</u> ➤ <u>http://www.metmuseum.org/</u> ➤ <u>http://www.amnh.org/science/divisions/anthro/</u> ➤ <u>http://www.getty.edu/museum/</u> ➤ <u>http://www.oac.cdlib.org/</u> ➤ <u>http://www.prm.ox.ac.uk/databases.html</u> ➤ <u>http://collections.si.edu/search/</u> <p>Tools:</p> <ul style="list-style-type: none"> ➤ <u>http://www.collectiveaccess.org/</u> ➤ <u>http://omeka.org/</u> ➤ <u>http://www.gallerysystems.com/embarc-product-information</u> 	<p>Initial <u>www.info-matic.org</u> <u>Blog Post</u> (5pts) <u>Comparative Analysis of Information Management Systems Assignment</u> (10pts)</p>
<p>Week 4</p>	<p><u>INFORMATION POLICY & ETHICS</u> <i>Visit 1: Brooklyn Museum of Art</i></p> <p>Additional Presentations:</p> <ul style="list-style-type: none"> ➤ <u>ICOM Code of Ethics for Museums</u> ➤ <u>UNESCO: Role of Museums in Education & Cultural Tourism Development Policy Brief</u> <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Zorich (Textbook, Ch.7, pp. 85-106) ➤ Hamma (2005) 	<p><u>Discussion 1 Assignment</u> (5pts)</p>

	<ul style="list-style-type: none"> ➤ Shatford (1984) ➤ Shatford (1986) ➤ White (2002) <p>Recommended Readings:</p> <ul style="list-style-type: none"> ➤ Rayward (1998) ➤ Wong (2011) ➤ Zorich et al. (2008) ➤ Pantalony (2007) ➤ Grant & Sussums (n.d.) ➤ Tanner (2004) ➤ Brown (1998) <p>Tools:</p> <ul style="list-style-type: none"> ➤ AAM: Developing an Institutional Code of Ethics ➤ Code of Ethics for Museums: Ethical principles for all who work for or govern museums in the UK ➤ London Museums Hub: Information Policy Toolkit <p>Useful Links:</p> <ul style="list-style-type: none"> ➤ http://www2.nau.edu/libnap-p/protocols.html ➤ http://www8.nau.edu/hcpo-p/intellectPropRights.html ➤ http://blogs.loc.gov/loc/2008/01/my-friend-flickr-a-match-made-in-photo-heaven/ ➤ http://www.ankn.uaf.edu/IKS/mataatua.html ➤ http://public.resource.org/memo.2007.05.19.html ➤ http://www.npr.org/templates/story/story.php?storyId=10451425 ➤ http://kk.org/thetechnium/archives/2008/01/better_than_fre.php ➤ http://www.spurlock.illinois.edu/policy/ethics.html 	
Week 5	<p>INFORMATION REPRESENTATION</p> <p>Additional Presentation</p> <ul style="list-style-type: none"> ➤ Information Representation <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Bearman (TextBook Ch.4, pp. 35-58) ➤ White (2002) ➤ Shatford (1984) ➤ Shatford (1986) <p>Recommended Readings:</p> <ul style="list-style-type: none"> ➤ Kucsma et al. (2010) ➤ CCO Commons http://cco.vrafoundation.org/ ➤ Voss (2012) ➤ Oomen et al. (2012) 	Metadata Assignment (5pts)

	<ul style="list-style-type: none"> ➤ Baca et al (2010) ➤ Wyman et al. (2006) ➤ Marty (2003) <p>Useful Links:</p> <ul style="list-style-type: none"> ➤ The Steve Project http://www.steve.museum/ 	
Week 6	<p><u>STANDARDS IN DATA STRUCTURE, CONTENT & VALUES</u> <i>Library Room 110 (Metadata Training)</i></p> <p>Additional Presentations:</p> <ul style="list-style-type: none"> ➤ <u>Seeing Standards: Data Structure, Content & Values</u> ➤ <u>Shared Cataloging in the Online Environment</u> <p>Questions to Consider:</p> <ul style="list-style-type: none"> ➤ What are the similarities & differences between the archive environment and the museum environment when describing their objects? ➤ What are Standards in Data Structure, Data Content, and Data Values? Explain. <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Baca et al. (TextBook Ch. 8 pp. 107-128) ➤ Baca, et al. (2008) https://www.getty.edu/research/publications/electronic_publications/intrometadata/ ➤ White (2002) ➤ Elings & Waibel (2007) <p>Recommended Readings:</p> <ul style="list-style-type: none"> ➤ Baca (2004) ➤ Baca et al. (2006a) ➤ Baca et al. (2006b) ➤ Bearman (1994) ➤ CHIN (2002) ➤ O’Keefe & Oldal (2010) ➤ Rinehart & White (2008) ➤ Ross & Oritz-Williams (2007) ➤ Star & Griesemer (1989) ➤ Waibel et al. (2010) <p>Tools:</p> <ul style="list-style-type: none"> ➤ <u>http://www.dlib.indiana.edu/~jenlrile/metadatamap/seeingstandards_glossary_pamphlet.pdf</u> ➤ <u>http://www.dlib.indiana.edu/~jenlrile/metadatamap/seeingstandards.pdf</u> ➤ <u>http://www.getty.edu/research/publications/electronic_publications/intro_aia/index.html</u> ➤ <u>http://www.getty.edu/research/publications/electronic_publications/cdwa/index.html</u> ➤ <u>http://www.getty.edu/research/conducting_research/f</u> 	----

	<p>ocabularies/aat/.</p> <ul style="list-style-type: none"> ➤ http://www.vraweb.org/projects/vracore4/index.html ➤ http://www.getty.edu/research/conducting_research/standards/cdwa. 	
Week 7	<p>NO CLASSES</p> <ul style="list-style-type: none"> ➤ Spring Break 	----
Week 8	<p>THE INTERACTIVE MUSEUM: ONLINE & ON-SITE</p> <ul style="list-style-type: none"> ➤ <i>Visit 2: Brooklyn Museum of Art</i> <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Barry (2006) ➤ Marty (2007) <p>Recommended Readings</p> <ul style="list-style-type: none"> ➤ Douma & Henschman (2000) ➤ Economou (TextBook, Ch.10, pp.137-156) ➤ Marty & Twidale (2004) ➤ Marty (TextBook, Ch.9 pp. 131-135) ➤ Wakkary, et al. (2007) 	<p>Discussion 2 Assignment (5pts)</p> <p>Interactive Technology Assignment (5pts)</p>
Week 9	<p>AUGMENTED & VIRTUAL MUSEUM REALITIES http://www.museum-id.com/idea-detail.asp?id=336</p> <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Urban et al. (2007) ➤ Schavemaker et al. (2011) <p>Recommended Readings:</p> <ul style="list-style-type: none"> ➤ Allison & Fillwalk (2009) ➤ Layer (www.powerhousemuseum.com/layer) ➤ Museum of London's Streets App (http://www.mus...) ➤ Rothfarb & Doherty (2007) ➤ Snyder & Elinich (2010) <p>Useful Links/Online Exhibits:</p> <ul style="list-style-type: none"> ➤ http://www.thebanmappingproject.com/ ➤ http://valley.lib.virginia.edu/ ➤ http://www.blakearchive.org/blake/main.html ➤ http://wintercounts.si.edu/ ➤ http://www.nmnh.si.edu/naa/fletcher/ ➤ https://www.google.com/search?q=augmented+reality+museum+exhibit&tbm=isch&tbo=u&source=univ&sa=X&ei=t6spU--GBqrGoAG_6oHwAw&ved=oCDIQsAQ&biw=943&bih=651&dpr=1.09 ➤ http://thenextweb.com/apps/2013/02/24/asian-art-museum-san-francisco-augmented-ios-app-terracotta-warriors-exhibit/ 	----
Week 10	<p>SOCIAL COMPUTING & THE PARTICIPATORY MUSEUM</p> <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Russo & Peacock (2009) ➤ Simon (2010) 	<p>Social Technology Assignment (5pts)</p>

	<p>Recommended Readings:</p> <ul style="list-style-type: none"> ➤ Fisher et al. (2011) ➤ HistoryPin (n.d.) ➤ Kalfatovic et al. (2009) ➤ http://musemtwo.blogspot.com/ ➤ Russo et al. (2008) <p>Useful Links/Blog Examples:</p> <ul style="list-style-type: none"> ➤ http://museumtwo.blogspot.com/ 	
Week 11	<p><u>USER-GENERATED CONTENT</u></p> <ul style="list-style-type: none"> ➤ <i>St. John's DLIS Spring Symposium</i> <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Terras (2011) ➤ Trant (2009) <p>Recommended Readings:</p> <ul style="list-style-type: none"> ➤ Puig, et al. (2009) ➤ Samis & Pau (2006) ➤ The Sociable (2011) ➤ Proctor (2007) ➤ Furner (2010) ➤ Lopez et al. (2010) ➤ Van Hooland et al. (2011) 	----
Week 12	<p><u>USER EXPECTATIONS & MOTIVATIONS</u></p> <ul style="list-style-type: none"> ➤ <i>St. John's Student Research Month</i> <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Ellenbogen et al. (TextBook, Ch.13, pp. 187-194) ➤ Haley & Schaller (2004) <p>Recommended Readings:</p> <ul style="list-style-type: none"> ➤ Dowden & Sayre (2009) ➤ Marty (TextBook, Ch.12, pp. 181-185) ➤ Smithsonian (2010) ➤ Solas (2010) ➤ Taxen & Frecon (2005) 	<u>Discussion 3 Assignment</u> (5pts)
Week 13	<p>NO CLASSES</p> <ul style="list-style-type: none"> ➤ Easter Break 	----
Week 14	<p><u>MOBILE TECHNOLOGIES</u></p> <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Petrie & Tallon (2010) ➤ Proctor (2010) 	<u>Mobile Technology Assignment</u> (5pts)

	<p>Recommended Readings:</p> <ul style="list-style-type: none"> ➤ Arts & Schoonhoven (2005) ➤ Gammon & Burch (2008) ➤ Hsi (2008) ➤ http://wiki.museummobile.info/ ➤ Samis (2010) ➤ Silveira et al. (2005) 	
Week 15	<p><u>DIGITAL STRATEGIES</u></p> <ul style="list-style-type: none"> ➤ <i>Visit 3: Brooklyn Museum of Art</i> <p>Required Readings:</p> <ul style="list-style-type: none"> ➤ Smithsonian's Digitization Plan (2010) ➤ Stein (2012) <p>Recommended Readings:</p> <ul style="list-style-type: none"> ➤ ALCS (2006) ➤ Trant (TextBook, Ch.19, pp. 275-292) ➤ Urban & Twidale (2010) 	<u>Discussion 4 Assignment</u> (5pts)
Week 16	<p>LAST DAY OF CLASSES</p> <ul style="list-style-type: none"> ➤ <i>Optional F2F/Online DLIS ePortfolio Help</i> ➤ Final Exam Week 	<u>Museum Informatics Post-Reflection</u> (5pts) Final Exam (20pts)

Bibliography:

Week1: What is Museum Informatics?

Ellin, E. (1969). Museums and the computer: An appraisal of new potentials. *Computers and the Humanities*, 4(1), 25-30.

Freitag, W. M. (1987). Art reproductions in the library: Notes on their history and use. In G. P. Weisberg, L. S. Dixon & A. B. Lemke (Eds.), *The Documented Image: Visions in Art History* (pp. 349-363). Syracuse, NY: Syracuse University Press.

Griffiths, J. M., King, D. W., & Aerni, S. E. (2007). The use, usefulness and value of museums in the U.S. Paper presented at *Museums and the Web 2007 (MW2007)*, San Francisco, Ca. Retrieved from *Archives & Museum Informatics* <http://www.archimuse.com/mw2007/papers/griffiths/griffiths.html>

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Marty, P.F. (Feb/March 2012). Unintended consequences: Unlimited access, invisible work and the future of the information profession in Cultural Heritage Organizations. *Bulletin of the American*

Society for Information Science and Technology, 38(3), 27-31. Retrieved from http://www.asis.org/Bulletin/feb-12/febmar12_marty.html

Misunas, Marla, and Richard Urban. (2010). Museum Computer Network (MCN). In *Encyclopedia of library and information sciences*, 3rd ed., ed. Marcia J. Bates and Mary Niles Maack, 3711-3716. Boca Raton, FL: CRC Press.

Week 2: The Information Profession in Museums

Given, L.M., & McTavish, L. (2010). What's old is new again: The reconvergence of libraries, archives and museums in the digital age. *Library Quarterly*, 80(1), 7-32.

Koot, Geert-Jan. (2001). Museum librarians as information strategists. *INSPEL*, 35(4), 248-258. Retrieved from <http://forge.fh-potsdam.de/~IFLA/INSPEL/or-4koge.pdf>

Marty, P.F. (2005). So You Want to Work in a Museum? Guiding the Careers of Future Information Professionals in Museums. *Journal of Education for Library and Information Science*, 46(2), 115-133.

Marty, P.F. (2007a). The changing nature of information work in museums. *Journal of the American Society for Information Science and Technology*, 58(1), 97-107. doi: 10.1002/asi.20443

Marty, P. F. (2007b). Museum professionals and the relevance of LIS expertise. *Library & Information Science Research* 29: 252-276.

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Trant, J. (2009). Emerging convergence? Thoughts on museums, archives, libraries and professional training. *Museum Management and Curatorship*, 24(4), 369-387.

Week 3: Information Management Systems

Abbott, L. (2010, June 15). Content technologies: DAM, CMS and collections management systems: What's the big dif? [Web blog post]. Retrieved from <http://lealaabbott.com/wp/archives/185>

Canadian Heritage Information Network (CHIN). (2011). Collections Management Software Review. Retrieved from CHIN http://www.pro.rcip-chin.gc.ca/gestion_collections-collections_management/evaluation_logiciels-software_review/index-eng.jsp

Canadian Heritage Information Network (CHIN). (2012). Collections Management Software Selection. Retrieved from CHIN http://www.pro.rcip-chin.gc.ca/gestion_collections-collections_management/selection_logiciel-software_selection/index-eng.jsp

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Goldstein, H. and Sully, P. (2012). 10 museums, 12 months, 1 DAM system: Adventures in centralized systems at Balboa Park. Paper presented at Museums and the Web 2012 (MW2012), San Diego, CA. Retrieved from *Archives & Museum Informatics* http://www.museumsandtheweb.com/mw2012/papers/10_museums_12_months_1_dams_adventures_in_cent

Marty, P. F. (2008). Information organization and access. In P. F. Marty & K. B. Jones (Eds.), *Museum informatics: People, information, and technology in museums*, Chapter 6 (pp. 79-83). New York: Routledge.

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Neilson, Dixie. (2010). Museum registration and documentation. In *Encyclopedia of library and information sciences*, 3rd ed., ed. Marcia J. Bates and Mary Niles Maack, 3739-3753. Boca Raton, FL: CRC Press.

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Week 4: Information Policy & Ethics

Brown, M. F. (1998). Can culture be copyrighted? *Current Anthropology*, 39(2), 193-222.

Grant, A., & Sussums, C. (n.d.). London Museum Hub Information Policy Toolkit. London, UK: Museums, Libraries, Archives. Retrieved from Renaissance London Information and Records Management Project <http://www.museuminfo-records.org.uk/toolkits/InformationPolicy.pdf>

Hamma, K. (2005). Public domain art in an age of easier mechanical reproducibility. *D-Lib Magazine*, 11(11), n.p. Retrieved from <http://www.dlib.org/dlib/november05/hamma/11hamma.html>

Pantalony, R. E. (2007). WIPO guide for managing intellectual property for museums. World Intellectual Property Organization. Geneva, Switzerland. Retrieved from WIPO http://www.wipo.int/copyright/en/museums_ip/guide.html

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Week 5: Information Representation

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<http://dlib.org/dlib/march10/kucsma/03kucsma.html>

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Week 6: Standards in Data Structure, Content & Values

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Baca, Murtha, ed. (2002). *Introduction to art image access: issues, tools, standards, strategies*. Los Angeles, CA: Getty Research Institute. Available online at:
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Week 7: No Classes – Spring Break (Monday, March 3rd – Sunday, March 8th)

Week 8: The Interactive Museum – Online & On-Site

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Week 10: Social Computing & the Participatory Museum

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Week 11: User-Generated Content

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Week 12: User Expectations & Motivations

Dowden, R., & Sayre, S. (2009). Tear down the walls: The redesign of ArtsConnectEd. In J. Trant and D. Bearman (Eds). *Museums and the Web 2009: Proceedings* (pp. 157-168). Toronto: Archives & Museum Informatics. <http://www.archimuse.com/mw2009/papers/dowden/dowden.html>

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Week 13: No Classes – Spring Break (April 17th – April 21st)

Week 14: Mobile Technologies

Arts, M. and S. Schoonhoven, Culture Around The Corner And Its Location-Based Application, in J. Trant and D. Bearman (eds.). *Museums and the Web 2005: Proceedings*, Toronto: Archives & Museum Informatics. <http://www.archimuse.com/mw2005/papers/arts/arts.html>

Gammon, B., & Burch, A. (2008). Designing mobile digital experiences. In L. Tallon and K. Walker (Eds.), *Digital technologies and the museum experience* (pp. 35-61).

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Petrie, M., & L. Tallon (2010). The Iphone effect? Comparing visitors' and museum professionals' evolving expectations of mobile interpretation tools. Paper presented at Museums and the Web 2010 (MW2010), Denver, CO. Retrieved from Archives & Museum Informatics <http://www.archimuse.com/mw2010/papers/petrie/petrie.html>

Proctor, N. (2010). The museum is mobile: Cross-platform content design for audiences on the go. In J. Trant and D. Bearman (eds). *Museums and the Web 2010: Proceedings* (pp. 59-72). Toronto: Archives

& Museum Informatics. Retrieved from Archives & Museum Informatics
<http://www.archimuse.com/mw2010/papers/proctor/proctor.html>

Samis, P. (2010). Culture shifts: Museums and mobiles in the age of social media. Presentation at Tate Handheld 2010, London, UK. [Video:
<http://tatehandheldconference.pbworks.com/w/page/29523573/Keynote-presentation:-Peter-Samis-2010>]

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<http://www.archimuse.com/mw2005/papers/silveira/silveira.html>

Week 15: Digital Strategies

ALCS (2006). Our Cultural Commonwealth.

<http://www.acls.org/cyberinfrastructure/ourculturalcommonwealth.pdf>

Stein, R. (2012) Blow up your digital strategy: Changing the conversation about museums and technology. Paper presented at Museums and the Web 2012 (MW2012), San Diego, CA. Retrieved from Archives & Museum Informatics
http://www.museumsandtheweb.com/mw2012/papers/blow_up_your_digital_strategy_changing_the_c_i

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Trant, J. (2008). Curating collections knowledge: Museums on the cyber-infrastructure. In P. F. Marty & K. B. Jones (Eds.), *Museum informatics: People, information, and technology in museums* (pp. 275-292). New York: Routledge.

Urban, R. J., & Twidale, M. B. (2010). Designing and developing a collections dashboard. In J. Trant and D. Bearman (Eds.), *Museums and the Web 2010: Proceedings* (pp. 87-100). Toronto: Archives & Museum Informatics. Retrieved from Archives & Museum Informatics
<http://www.archimuse.com/mw2010/papers/urban/urban.html>

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)