

**School of Information and Library Science
University of North Carolina, Chapel Hill
INLS 525 - Electronic Records Management
*[Last Updated: 2016-01-18]***

Spring 2016

Meeting Time: Tuesday, 6:00-8:45 pm

Location: Manning 014

Credits: 3

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Office Hours: by appointment

Course Web Site: <https://sakai.unc.edu/portal/site/061fea7b-3620-41b2-88e1-c661026faa84/page/5699aa57-72d1-4c9f-8a2c-54b2fc31f74e>

COURSE DESCRIPTION

The management and preservation of electronic records is essential for maintaining institutional accountability; supporting the efficient operation of contemporary organizations; protecting the rights of citizens, employees and customers; perpetuating valuable forms of social memory; and helping individuals to integrate aspects of the past into their sense of identity.

Current electronic recordkeeping is in a state of relative neglect. At their most basic level, electronic records problems are related to proper configuration and management of computer components (hardware and software). The good news is that actual and potential solutions to the technological issues abound. The bad news is that the behavioral, organizational, institutional and professional underpinnings are generally not yet in place to implement the technological solutions. This places a profound set of challenges and opportunities in the hands of SILS students about to enter the workforce.

In this course, we will begin by considering the messy recordkeeping environment in which we currently live. We will then gradually build up a set of concepts, tools and strategies that information professionals can use to help shape more appropriate, valuable and sustainable recordkeeping systems.

COURSE OBJECTIVES

- Gain awareness of trends and practices in contemporary recordkeeping environments.
- Understand the nature of electronic records in different organizational, technological, legal, cultural, and business environments.
- Be aware of social, legal, and policy implications for individuals and organizations keeping records in electronic form.
- Be able to analyze a variety of problems related to electronic records and propose solutions that are appropriate in particular contexts.
- Understand the differences between recordkeeping systems and other types of information systems.
- Be able to evaluate the effectiveness of different approaches, methods, and technologies for managing electronic records.

- Understand the technical and institutional requirements associated with long-term retention, preservation of and access to electronic records.
- Be able to evaluate various electronic recordkeeping strategies.

COURSE EXPECTATIONS

- Complete readings BEFORE CLASS each week. Manage your time accordingly.
 - How to Read a Book - <http://www.si.umich.edu/~pne/PDF/howtoread.pdf>
- Written work should be of high quality. If you have concerns about writing, address them early and often.
 - UNC Writing Center in Phillips Annex - <http://www.unc.edu/depts/wcweb/>
 - Most importantly, your peers.
- Come to class on time
- Participate in discussions (both in-class and through Sakai) – counts as 20% of your total grade for the course
- Demonstrate that you have read the material, understood and synthesized it.
- Tell us when you do not agree. This is a discussion forum, not just a lecture session. No one in the room has a monopoly on correct answers. You are encouraged to question the assumptions of the readings, your instructors and your fellow students. Your comments should reflect mutual respect and should not attack individuals, but ideas are presented in order for you to analyze and critique them.

Tools Explored:

Digital Forensics

Bitcurator: www.bitcurator.net

Pay particular attention to the Quickstart Guide: <http://wiki.bitcurator.net/downloads/BitCurator-Quickstart.pdf>

Tools for Analysis of drives

WinDirStat—disk usage statistics viewer and cleanup tool

<https://windirstat.info> (windows)

Disk Inventory X: <http://www.derlien.com/> (Mac)

File Authenticity: allows you to compare files or folders on your systems that you can manage them properly.

Beyond compare: an application designed to provide users with “a full suite of file management and comparison tools.” (proprietary—Scooter Software)

http://download.cnet.com/Beyond-Compare/3000-2242_4-10015731.html

Bagger—a software tool intended to ensure the authentic and true transfer of files from one machine to another. (open source): <https://github.com/LibraryOfCongress/bagit-java>

[Exactly](#)

Tools for data capture—Websites

Archive-it— <http://www.archive-it.org>

Special Needs: If you feel that you may need an accommodation for a disability or have any other special need, please make an appointment to discuss with me. I will best be able to address special circumstances if I know about them early in the semester. My office hours and contact information are listed at the beginning of this syllabus.

COURSE REQUIREMENTS

1. Complete required readings and participate in class discussions.
2. Paper about available technologies - Write a paper about a subset of the topic that could support an aspect of electronic recordkeeping. You'll each be assigned a subset of the tools on **Week 4 (Tuesday, February 2)**. Your paper should address (1) characteristics of the tools, (2) what electronic recordkeeping functions they purport to or potentially support, and (3) potential opportunities and challenges of implementing them in different contexts. Due on **Week 8 (Tuesday, March 1)**.
3. Data Recovery and Ingest Assignment - With a group of others students, you will receive a set of files and will then carry out a set of recovery and ingest tasks with those files.
 - You will receive the files and instructions on **Week 8 (Tuesday, March 1, 2016)**.
 - A group paper about this process is due on **Week 15 (Tuesday, April 19, 2016)**.
 - An individual paper providing recommendations based on your experience is due on **Week 16 (April 26)**.

*Important, file naming note—please turn your assignments in as .pdf documents, last name_name_of_paper_date e.g Eubank_dataingest_group_20150208

KEY DATES

Week 4 (Tuesday, February 2) - Receive assignments for paper on available technologies

Week 7 (Tuesday, February 23 tentative)—Training and demonstration of Archive-It. Assignment to crawl a website and evaluate the content collected.

Week 8 (Tuesday, March 1) - Receive files and instructions for Data Recovery and Ingest Assignment

Week 9 (Tuesday, March 8) - Paper about web crawl and findings due

Week 11 (Tuesday, March 22) - Paper about available technologies due.

Week 15 (Tuesday, April 19) - Group Paper on Data Recovery and Ingest Assignment is due

Week 16 (Tuesday, April 26)—Individual Paper about Data Recovery and Ingest Assignment is due

Week 17—Tour

(TBD)

IMPORTANT NOTE ON PLAGIARISM

It is very important that you both attribute your sources and avoid excessive use of quotes (see separate handout called "In Your Own Words"). Be aware of the University of North Carolina policy on plagiarism. Your written work must be original. Ask if you have any doubts about what this means.

All cases of plagiarism (unattributed quotation or paraphrasing) of anyone else's work, whether from someone else's answers to homework or from published materials, will be officially reported and dealt with according to UNC policies (Instrument of Student Judicial Governance, Section II.B.1. and III.D.2, <http://instrument.unc.edu>).

EVALUATION

Participation in class discussion and lab exercises (this includes paper on observations of website archiving): 20%

Paper about available tools: 25%

Group paper on Data Recovery and Ingest Assignment: 30%

Individual paper on Data Recovery and Ingest Assignment: 25%

The most important measures of your performance in this and all other classes at SILS will be your ability to engage in challenging materials with your fellow students; your reputation for insights and professionalism among your peers and with your instructors; your integration of course material with the other things you are learning both inside and outside the classroom; and your ability to apply what you've learned in your future career. However, the conventions of academia dictate that we also assign labels (called grades) to your work on assignments and for the course as a whole.

Based on UNC Registrar Policy for graduate-level courses (<http://regweb.unc.edu/resources/rpm24.php>), both assignment and semester grades will be H, P, L or F. Few students will obtain an "H," which signifies an exceptionally high level of performance (higher than an "A" in an A-F systems). The following is a more detailed breakdown:

H = Superior work: complete command of subject, unusual depth, great creativity or originality

P+ = Above average performance: solid work somewhat beyond what was required and good command of the material

P = Satisfactory performance that meets course requirements (expected to be the median grade of all students in the course).

P- = Acceptable work in need of improvement

L = Unacceptable graduate performance: substandard in significant ways

F = Performance that is seriously deficient and unworthy of graduate credit

Note: The above breakdown is for individual assignments. Final grades in the course will not reflect + or - designations (i.e. there will be Ps but no P+s or P-s).

COURSE READINGS

You are not required to buy any books for this course.

SILS Reserves:

Copies of the following books are available from the SILS Library on the first floor of Manning Hall (behind the SILS Library help desk):

Adam, Azad. *Implementing Electronic Document and Record Management Systems*. Boca Raton: Auerbach Publications, 2008.

Ambacher, Bruce I., ed. *Thirty Years of Electronic Records*. Lanham, MD: Scarecrow Press, 2003.

Bearman, David, ed. *Archival Management of Electronic Records, Archives and Museum Informatics Technical Report, No. 13*. Pittsburgh, PA: Archives and Museum Informatics, 1991.

Bearman, David. *Electronic Evidence: Strategies for Managing Records in Contemporary Organizations*. Pittsburgh: Archives and Museum Informatics, 1994.

Brown, Adrian. *Archiving Websites: A Practical Guide for Information Management Professionals*. London: Facet, 2006.

Dearstyne, Bruce W., ed. *Effective Approaches for Managing Electronic Records and Archives*. Lanham, MD: Scarecrow Press, 2002.

Dollar, Charles M. *Authentic Electronic Records: Strategies for Long-Term Access*. Chicago, IL: Cohasset Associates, 1999.

Ellis, Judith A., ed. *Selected Essays in Electronic Recordkeeping in Australia*. O'Connor, ACT, Australia: Australian Society of Archivists, 2000.

Higgs, Edward, ed. *History and Electronic Artefacts*. Oxford, England: Clarendon Press, 1998. See especially Parts 1-3.

Jones, Keith J., Richard Bejtlich, Curtis W. Rose, Dan Farmer, Wietse Venema, and Brian Carrier. *Computer Forensics Library Boxed Set*. Upper Saddle River, NJ: Addison-Wesley, 2007. Includes:

- Carrier, Brian. *File System Forensic Analysis*. Boston, MA: Addison-Wesley, 2005.
- Farmer, Dan, and Wietse Venema. *Forensic Discovery*. Upper Saddle River, NJ: Addison-Wesley, 2005.
- Jones, Keith J., Richard Bejtlich, and Curtis W. Rose. *Real Digital Forensics: Computer Security and Incident Response*. Upper Saddle River, NJ: Addison-Wesley, 2006.

Lee, Christopher A. ed. *I, Digital: Personal Collections in the Digital Era*. Chicago, IL: Society of American Archivists, 2011.

Reid, Roger, Gareth Fraser-King, and W. David Schwaderer. *Data Lifecycles: Managing Data for Strategic Advantage*. Chichester, England: Wiley, 2007.

Smallwood, Robert F. *Managing Electronic Records: Methods, Best Practices, and Technologies*. Hoboken, NJ: Wiley CIO, 2013.

Stephens, David O. *Records Management: Making the Transition from Paper to Electronic*. Lenexa, KS: ARMA, 2007.

Stephens, David O., and Roderick C. Wallace. *Electronic Records Retention: New Strategies for Data Life Cycle Management*. Prairie Village, KS: ARMA International, 2003.

Saffady, William. *Managing Electronic Records*. 3rd ed. Prairie Village, KS: ARMA International, 2002.

World Wide Web: Some class preparation requires review of information on the Web. Uniform Resource Locators (URLs) are provided with the reading assignments.

For the weekly readings, the following labels indicate where specific course readings can be located:

B = Book for purchase

R = Reserves at SILS Library in Manning Hall

S = Course site on Sakai (<https://sakai.unc.edu>), where copies of some readings are available (under Course Documents > Readings)

O = Online through UNC license. NOTE: Accessing these materials can require you either to use a computer with a UNC IP address (generally, a SILS or UNC Library computer) or visit the associated sites through a UNC proxy server. See: <http://proxy.lib.unc.edu/setupinfo.html>

W = Publicly accessible Web

Part 1 - What's happening? Trends in Recordkeeping

Week 1 (January 12) – No class

Week 2 (January 19) - Introduction, housekeeping, discussion of expectations; Recordkeeping Realities - Part 1 (Recordkeeping Expectations and Practices)

- Introduction to the Course
- Electronic Recordkeeping - Goals and Aspirations
- Setup and familiarization with lab components

Read:

W - Gantz, John, and David Reinsel. "Extracting Value from Chaos." EMC Corporation. June 2011. <http://www.emc.com/collateral/analyst-reports/idc-extracting-value-from-chaos-ar.pdf>

W - John, Jeremy Leighton, Ian Rowlands, Peter Williams, and Katrina Dean. "Digital Lives: Personal Digital Archives for the 21st Century >> an Initial Synthesis." 2010. [Read: pages vi-xviii] <http://britishlibrary.typepad.co.uk/files/digital-lives-synthesis02-1.pdf>

O - Meijer, Albert. "Electronic Records Management and Public Accountability: Beyond an Instrumental Approach." *The Information Society* 17, no. 4 (2001): 259-70. <http://dx.doi.org/10.1080/019722401753330850>

W - Catherine E. Shoichet "Bridge firestorm could have bigger impact on Christie." *CNN Politics*. January 8, 2014. <http://www.cnn.com/2014/01/08/politics/christie-bridge/index.html> [Read the story and the email messages: <http://www.cnn.com/interactive/2014/01/politics/christie-emails/index.html>]

Other Related Readings

Week 3 (January 26) - Recordkeeping Realities - Part 2 (New Forms of Expression and Interaction)

- Media of Communication and Coordination - Based on Digitally-Encoded Symbols
- Social Structures
- Genres and Routines
- Persistence of Genres
- Hybrid (Paper/Digital) Recordkeeping Environments
- Evolutionary Change
- Unintended Consequences

Exercise- examining and considering the files on your computer; WinDirStat—disk usage statistics viewer and cleanup tool

<https://windirstat.info> (windows)

Disk Inventory X: <http://www.derlien.com/> (Mac)

Read:

W - Franks, Patricia C. "How Federal Agencies Can Effectively Manage Records Created Using New Social Media Tools." In *Using Technology Series*. Washington, DC: IBM Center for the Business of Government, 2010. <http://www.businessofgovernment.org/sites/default/files/How%20Federal%20Agencies%20Can%20Effectively%20Manage%20Records%20Created%20Using%20New%20Social%20Media%20Tools.pdf>

O - Madhava, Rakesh. "10 Things to Know About Preserving Social Media." *Information Management Journal*, September/October (2011): 33-7.

S - Sellen, Abigail J., and Richard Harper. *The Myth of the Paperless Office*. Cambridge, MA: MIT Press, 2002. Introduction, p.1-22.

Other Related Readings

Week 4 (February 2) - Levels of Representation and Curatorial Implications - Part 1

- Backup, redundancy and recovery
- Data Stored as Instructions for Future Interaction
- Hardware and Software Dependence

Read:

W - Christopher A. Lee, Kam Woods, Matthew Kirschenbaum, and Alexandra Chassanoff. *From Bitstreams to Heritage: Putting Digital Forensics into Practice in Collecting Institutions*. September 30, 2013. <http://www.bitcurator.net/docs/bitstreams-to-heritage.pdf>

W - Lee, Christopher A. "Digital Curation as Communication Mediation." In *Handbook of Technical Communication*, edited by Alexander Mehler, Laurent Romary, and Dafydd Gibbon, 507-530. Berlin: Mouton De Gruyter, 2012. <http://www.ils.unc.edu/callee/p507-lee.pdf>

S, R - Reid, Roger, Gareth Fraser-King, and W. David Schwaderer. "Data Lifecycles and Tiered Storage Architectures." *Data Lifecycles: Managing Data for Strategic Advantage*, 145-167. Chichester, England: Wiley, 2007. [You can skip over the Serial ATA discussion on p.147-151]

Other Related Readings

Receive assignments for paper on available technologies

Week 5 (February 9) - Levels of Representation and Curatorial Implications - Part 2

- Technology Obsolescence
- Vendor Lock-In and Legacy Data
- Significant Properties
- Interoperability through Abstraction
- Interoperability through Open Standards
- Migration
- Emulation
- Web Archiving (Capture, Preservation, Access)
- Persistent Identifiers
- Representation Information and Format Registries
- Intellectual Control

Exercise - File integrity through hashing - generate hash, change content with hex editor, change file name, recheck hash

Read:

S - Blackburn, Barb, Robert Smallwood, and Seth Earley. "Taxonomy Development for E-Records." In *Managing Electronic Records: Methods, Best Practices, and Technologies*, 79-109. Hoboken, NJ: John Wiley and Sons, 2013.

S - Lange, Michele C. S., and Kristin M. Nimsger. "3.3 Discoverability" (60-67), "3.5 Data Locations and Accessibility" (72-82). *Electronic Evidence and Discovery: What Every Lawyer Should Know Now*. 2nd ed. Chicago, IL: Section of Science & Technology Law American Bar Association, 2009.

W - Rothenberg, Jeff. "Ensuring the Longevity of Digital Information." Washington, DC: Council on Library and Information Resources, 1999. <http://www.clir.org/pubs/archives/ensuring.pdf>

Other Related Readings

Week 6 (February 16) Levels of Representation and Curatorial Implications - Part 2 & Web Archiving Introduction

- Technology Obsolescence
- Vendor Lock-In and Legacy Data
- Significant Properties
- Interoperability through Abstraction
- Interoperability through Open Standards
- Migration
- Emulation
- Web Archiving (Capture, Preservation, Access)
- Persistent Identifiers
- Representation Information and Format Registries
- Intellectual Control
- What are web archives?
- Why should we be interested in managing the web?
- What are the responsibilities of records professionals?
- Available tools

Week 7 (February 23) – Archiving the Web—Introduction to RM and Web Archiving

- What are web archives?
- Why should we be interested in managing the web?
- What are the responsibilities of records professionals?
- Available tools
- Focus on recordkeeping issues with web crawling systems, rather than individual records
- Retention Scheduling and Appraisal
- Reliability and authenticity
- Managing Web Records (Selection, Retention Management, Intellectual Control)

Read:

S, - Masanes, Julian. *Web Archiving*, Parts 1-4. New York: Springer Publications, 2006.

S - Cunningham, Adrian. "Ghosts in the Machine: Towards a Principles-Based Approach to Making and Keeping Digital Personal Records." *I, Digital: Personal Collections in the Digital Era*, edited by Christopher A. Lee, 78-89. Chicago, Society of American Archivists, 2011.

S, R - Smallwood, Robert F. "Information Governance: The Crucial First Step" and "Managing Vital E-Records." In *Managing Electronic Records: Methods, Best Practices, and Technologies*, 11-20, 135-147. Hoboken, NJ: John Wiley and Sons, 2013.

[Other Related Readings](#)

Part 2 - What are We Going to Do about it? Strategies and Tactics

Week 8 (March 1) - Defining the Problem Space - Identifying Requirements and Responsibilities

- Archive-it Training
- What are Archives?
- How are Records Different from other Information?
- What are the responsibilities of records professionals?
- Information Governance
- Focus on recordkeeping systems, rather than individual records
- Retention Scheduling and Appraisal
- Security
- Reliability and authenticity
- Managing Web Records (Selection, Retention Management, Intellectual Control)

Receive files and instructions for Data Recovery and Ingest Assignment

Read:

S, R - Adam, Azad. "Fundamentals of EDRMS." In *Implementing Electronic Document and Record Management Systems*, 7-22. Boca Raton: Auerbach Publications, 2008.

S - Cunningham, Adrian. "Ghosts in the Machine: Towards a Principles-Based Approach to Making and Keeping Digital Personal Records." *I, Digital: Personal Collections in the Digital Era*, edited by Christopher A. Lee, 78-89. Chicago, Society of American Archivists, 2011.

S, R - Smallwood, Robert F. "Information Governance: The Crucial First Step" and "Managing Vital E-Records." In *Managing Electronic Records: Methods, Best Practices, and Technologies*, 11-20, 135-147. Hoboken, NJ: John Wiley and Sons, 2013.

Week 9 (March 8)—Making the Case for Electronic Recordkeeping

Paper about web crawl and findings due; will be accepted until March 11. Contact me if you need more time.

- What are the important resources and where do they reside?
- ERM as an element of business continuity management
- Cost-Benefit and Return-on-Investment Approaches
- Risk Management
- Explaining the relevance of ERM to pressing, contemporary concerns

Read:

W - Digital Preservation Business Case Toolkit. Digital Preservation Coalition.
http://wiki.dpconline.org/index.php?title=Digital_Preservation_Business_Case_Toolkit

C - Lee, Christopher A. "Guerilla Electronic Records Management: Lessons Learned." *Records and Information Management Report* 18, no. 5 (2002): 1-13.

S - Mat-Isa, Azman. "Risk Management and Managing Records." In *Record Keeping in a Hybrid Environment: Managing the Creation, Use, Preservation and Disposal of Unique Information Objects in Context*, edited by Alistair G. Tough and Michael Moss, 69-83. Oxford: Chandos, 2006.

O - Saffady, William. "Making the Business Case for Records Management." *Information Management Journal*, January/February (2011): 38-41.

Other Related Readings

Week 10 (March 15) Spring Break—No Class—

Week 11 (March 22) - Tentative Guest speaker—Bit Curator

Lab: BitCurator exercise, Cal Lee presenting

Access and Use - Scenarios, Needs and Limitations

- Reference Services
- Freedom of Information Act (FOIA) and Open Records Laws
- Discovery

Paper about available technologies due

Read:

W - IIPC Access Working Group. "Use Cases for Access to Internet Archives." International Internet Preservation Consortium, 2006.
<http://www.netpreserve.org/sites/default/files/resources/UseCases.pdf>

W - Kaine Email Project @LVA. <http://www.virginiamemory.com/collections/kaine/> [Read: Look Under the Hood; Examine the Search the Collection area]

S - Lange, Michele C. S., and Kristin M. Nimsgar. "3.7 Privelege and Inadvertent Waiver" (95-104), "3.9 Review and Production Considerations" (125-135). *Electronic Evidence and Discovery: What Every Lawyer Should Know Now*. 2nd ed. Chicago, IL: Section of Science & Technology Law American Bar Association, 2009.

W - Lawyers for Civil Justice. "Litigation Cost Survey of Major Companies." 2010.
<http://www.uscourts.gov/uscourts/RulesAndPolicies/rules/Duke%20Materials/Library/Litigation%20Cost%20Survey%20of%20Major%20Companies.pdf> [Note: A lot of the pages are appendices, which you don't need to read closely.]

Other Related Readings

Week 12 (March 29) Learning the Rules: Working within the Legal and Policy Requirements of the Environment

Read:

W - Generally Accepted Recordkeeping Principles (GARP). ARMA International. Read both the Principles, http://www.arma.org/docs/sharepoint-roadshow/the-principles_executive-summaries_final.doc, and Maturity Model, <http://www.arma.org/docs/bookstore/theprinciplesmaturitymodel.pdf>

W - Managing Government Records Directive. Office of Management and Budget. August 24, 2012. <http://www.whitehouse.gov/sites/default/files/omb/memoranda/2012/m-12-18.pdf>

S, R - Smallwood, Robert F. "International E-Records Standards." In *Managing Electronic Records: Methods, Best Practices, and Technologies*, 239-269. Hoboken, NJ: John Wiley and Sons, 2013.

S, O - Wallace, David A. "Electronic Records Management Defined by Court Case and Policy." *Information Management Journal* 35, no. 1 (2001): 4, 6-8, 10, 12, 14, 15.

Other Related Readings

Week 13 (April 5) - Project Management and Implementation

- Intervention early in the records lifecycle
- Project management
- Procurement
- System implementation

Read:

C - Adam, Azad. "Project Management." In *Implementing Electronic Document and Record Management Systems*, 127-150. Boca Raton: Auerbach Publications, 2008.

C - Bean, Bernadette. "A Project Plan." In *Selected Essays in Electronic Recordkeeping in Australia*, edited by Judith A. Ellis, 31-49. O'Connor, ACT, Australia: Australian Society of Archivists, 2000.

C - Davis, Simon. "Implementing an Electronic Recordkeeping System." In *Selected Essays in Electronic Recordkeeping in Australia*, edited by Judith A. Ellis, 71-95. O'Connor, ACT, Australia: Australian Society of Archivists, 2000.

Week 13 (April 5) - Changing the Rules: Developing or Influencing Policies, Standards and Guidelines

- Creating Approachable Guidance Documents

Read:

C - Skelton, Karen. "Designing an Electronic Recordkeeping System." In *Selected Essays in Electronic Recordkeeping in Australia*, edited by Judith A. Ellis, 51-70. O'Connor, ACT, Australia: Australian Society of Archivists, 2000.

S, R - Smallwood, Robert F. "Procurement Governance: The Buying Process." In *Managing Electronic Records: Methods, Best Practices, and Technologies*, 355-372. Hoboken, NJ: John Wiley and Sons, 2013.

W - DLM Forum Foundation, *MoReq2010: Modular Requirements for Records Systems - Volume 1: Core Services and Plug-in Modules*, 2011. [http://moreq2010.eu/pdf/MoReq2010-Core+Plugin\(v1-0\).pdf](http://moreq2010.eu/pdf/MoReq2010-Core+Plugin(v1-0).pdf). [Familiarize yourself with the contents of the whole document; read 1.4. Primer (p.19-30); read System Services 2.1-2.3 (p.31-39).]

S, R - Stephens, David O. "Electronic Records Retention: Managing the Data Life Cycle," "Sample Policy: Corporate Records Retention," "Sample Policy for All Employees," "Sample Policy: Legal Hold on Records Destruction," "Sample Policy: E-mail Retention," "Sample Policy: Records Access." *Records Management: Making the Transition from Paper to Electronic*, 53-70, 75-82, 121-124, 137-140, 191-194. Lenexa, KS: ARMA, 2007.

Other Related Readings

Week 14 (April 12) - Getting Records into Preservation Environments

Getting data into a preservation environment [explanation of ingest activities and characteristics of a good preservation environment]

Read:

W - Glick, Kevin, and Eliot Wilczek. "Ingest Guide for University Electronic Records."
<http://dca.lib.tufts.edu/features/nhprc/reports/ingest/index.html>

W - Lee, Christopher A. "Open Archival Information System (OAIS) Reference Model." In *Encyclopedia of Library and Information Sciences*, Third Edition, edited by Marcia J. Bates and Mary Niles Maack, 4020-4030. Boca Raton, FL: CRC Press, 2009.
<http://www.ils.unc.edu/callee/p4020-lee.pdf>

O, W - Woods, Kam, Christopher A. Lee, and Simson Garfinkel. "Extending Digital Repository Architectures to Support Disk Image Preservation and Access." In *JCDL '11: Proceeding of the 11th Annual International ACM/IEEE Joint Conference on Digital Libraries*, 57-66. New York, NY: ACM Press, 2011. <http://dx.doi.org/10.1145/1998076.1998088> or
<http://www.ils.unc.edu/callee/p57-woods.pdf>

W-Meister, Sam and Alexandra Chassanoff. "Integrating Digital Forensics Techniques into Curatorial Tasks: A Case Study." In *International Journal of Digital Curation*, Vol 9, No 2 (2014). Edinburgh, Scotland, University of Edinburgh: Digital Curation Centre, 2014.
<http://www.ijdc.net/index.php/ijdc/article/view/9.2.6/364>

Other Related Readings

Week 15 (April 19) -

Group paper on Data Recovery and Ingest Assignment Due—April 19 (to Sakai Assignments area by 6pm)

- Policy, design, implementation and standards (Pitt project)
- Market, laws, norms, architecture (Lessig)
- Combining strategies to fit the organizational context
- Systems and software:
 - Records management applications
 - Existing tools and applications

Week 16 (April 26)— Strategies for Influencing Behavior and Promoting Adoption and Electronic Records on a Small Scale—Wrap up and conclusions

- Metadata
- Small archives
- Acquiring records created and managed outside of formal institutional contexts
- Concluding thoughts and observations

Individual Paper about Data Recovery and Ingest Assignment is due (to Sakai Assignments area at 6:00pm, Tuesday, April 26)

Read:

W - Guidance on Managing Records in Web 2.0/Social Media Platforms. U.S. National Archives and Records Administration. October 20, 2010. <http://www.archives.gov/records-mgmt/bulletins/2011/2011-02.html>

C - Lange, Michele C. S., and Kristin M. Nimsger. "Sample Preservation Letter to Employees and Custodians" (359-363) and "Sample Preservation letter to Departing Employees and Custodians" (365-369). *Electronic Evidence and Discovery: What Every Lawyer Should Know Now*. 2nd ed. Chicago, IL: Section of Science & Technology Law American Bar Association, 2009.

W - Lavoie, Brian F. "The Incentives to Preserve Digital Materials: Roles, Scenarios, and Economic Decision-Making." Dublin, Ohio: OCLC Research, 2003.
<http://www.oclc.org/research/projects/digipres/incentives-dp.pdf> [Look over the whole document, but focus particularly on: Executive Summary (p.2-4), Incentives to Preserve (10-13), A Simple Economic Framework (13-19)]

W - Kirshenbaum, Matthew G., Richard Oveden and Gabriela Redwine. "digital Forensics and Born-Digital Content in Cultural Heritage Collections." Council on Library and Information Resources. Washington D.C., December 2010.
<http://www.clir.org/pubs/reports/reports/pub149/pub149.pdf>

C - Lessig, Lawrence. "What Things Regulate." In *Code and Other Laws of Cyberspace*, 85-99. New York: Basic Books, 1999.

W - Activists' Guide to Archiving Video. <http://archiveguide.witness.org/>

W - Cook, Terry. "Byte-Ing Off What You Can Chew: Electronic Records Strategies for Small Archival Institutions." *Archifacts* (2004): 1-20.
http://www.aranz.org.nz/SITE_Default/SITE_publications/papers_online/terry_cook_paper.asp
[Focus most on Seven Step Plan and why he proposes these steps]

C - Thomas, Susan. "Curating the I, Digital: Experiences at the Bodleian Library." *I, Digital: Personal Collections in the Digital Era*, edited by Christopher A. Lee, 280-305. Chicago, Society of American Archivists, 2011.

Other Related Readings

Week 16—

TBD

Individual paper on Data Recovery and Ingest Assignment Due—April 26 (to Sakai Assignments area by 6pm)

Sources Specifically about Current Legal Requirements

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