

INTERNATIONAL UNIVERSITY OF JAPAN
Public Management and Policy Analysis Program
Graduate School of International Relations

ADC5031 (2 Credits)
Public Management Information Systems
Spring 2019

Classroom: C201	Instructor: Hun Myoung Park
Time: 14:40-17:50 on Friday	Office: 311
Web Page: http://www.sonsoo.org/itis/pmis/	Office Hour: 13:30-14:30 (Friday)
E-mail: kucc625 at iuj.ac.jp	Telephone: (025) 779-1464

Prerequisites: Students are expected to have taken *Introduction to Electronic Government* (ADC5030). This course is a prerequisite of *Information Policy and Management* (ADC 5032) in the fall term.

INTRODUCTION

Public management information systems (PMIS) studies how government can design, develop, and implement public information systems effectively to improve productivity, responsiveness, transparency, and accountability in the public sector. This course is an extension of *Introduction to Electronic Government* in winter term but shifts its focus from technological aspects to both technological and managerial ones.

The objective of this course is to help future public managers develop their abilities to manage information systems in the public and nonprofit sectors. Students will be able to understand the importance of technology standards and various management issues such as acquisition of hardware and software, financing information systems, software copyright, education and training, implementation/maintenance, and evaluation of information systems.

At the end of semester, students should be able to:

- Understand differences between public and private information systems
- Understand design principles of public service applications
- Understand the adoption of information technology and services
- Understand Web standards and accessibility
- Understand software copyright and open source software
- Understand financing issues of public information systems
- Understand implementation and maintenance of public information systems
- Evaluate public information systems

COURSE ORGANIZATION

This course consists of a series of lectures, labs, and students' presentations. Students are encouraged to participate in class by asking questions and actively joining discussions. Also, students are highly recommended to take advantage of talking to the instructor during office hours or by setting up appointments.

ASSESSMENT (COURSE REQUIREMENT)

Attendance (10%): Students should attend ALL classes. Each unexcused absence (being more than 15 minutes late) results in TWO POINT (2%) deduction from the final score. Students who missed more than 30 percent (≥ 5 classes) of class MAY NOT pass this course.

Participation in Class (Extra credit): Students are required to actively participate in class. Extra credits will be awarded for outstanding performance and participation in class.

Reading Assignment (20%): Two students (or one student) are asked to present jointly one optional reading (book chapter or journal paper). Students need to prepare a summary handout (no longer than 2 pages) and present main arguments in 15 minutes.

Book Chapter Review (30%): Students are asked to read the chapter 6 of Chang's (2007) *Bad Samaritans* carefully and then write a review with special focus on computer software copyright. They have to understand logics of both neo-liberalism and its counterpart. Use the memo template and do not exceed 4 pages. Submit the review to the instructor (kucc625@iuuj.ac.jp) by Wednesday, May 8.

Final Exam (40%): The final exam is a take-home and open-book/notebook one that consists of 4-5 essay questions. No midterm exam will be given.

Late Penalties: All assignments (i.e., reading handout and term paper) and exam answers should be handed in to the instructor at the start of the class on the due date, unless otherwise instructed. Late assignments will be accepted with a penalty of 10 percent if submitted within a day after the time due. Under no circumstances will late assignments be accepted after one day of the due date without prior authorization from the instructor.

Format and Styles: All assignments and exam answers should be written in electronic forms (Microsoft Word, LibreOffice Writer, ...). Use the default format and styles (A4, default margin, Time and Roman font, 12 point, single-spaced, etc.). If you are not sure, please download the template file from the course Web page.

GRADING

The final grade is based on a composite of course requirements mentioned above. Notice that reading assignments and quiz account for the largest weight of 40 percent. Their weights are:

- (1) Final exam 40%
- (2) Reading assignment 20%
- (3) Book chapter review 30%
- (4) Class attendance 10 points
- (5) Extra credits up to 10 points. Extra credits will be awarded to students who actively participate in class (e.g., good questions and answers) and show excellent performance in homework or exam.

That is, your final score is $(1) \times .40 + (2) \times .20 + (3) \times .30 + (4) + (5)$.

Your letter grade is basically determined as follows, but it may be adjusted, depending on students' performance, so that the class GPA becomes closer to 3.5.

96 - 100: A (4.0)	66 - 69: B- (2.5)
90 - 95: A- (3.75)	60 - 65: C (2.0)
80 - 89: B+ (3.5)	< 60 : F
70 - 79: B (3.0)	Incomplete (I), withdrawal (W)

* Students who missed more than 30 percent (≥ 5 classes) of class may not pass this course.

Appealing the Grade: If you object to any grading decision, you may appeal the grade to the instructor. The appeal must be given along with original documents (e.g., exam and assignment) to the instructor no later than 24 hours after the grade is released.

CLASS POLICY

Attendance and Lateness: Students should attend each class and be present when each class begins. Being more than 15 minutes late is considered absent from the class. Excused absences for special circumstances (e.g., sickness) may be arranged in advance and will not influence the attendance grade. There is no formal seating chart.

Academic Misconduct: Students should not only gain knowledge and skills, but also build their character. Particularly, public managers should equip themselves with high and strict professional standards and ethics. All students should complete their own work and be evaluated based upon that work. Students should avoid academic dishonesty and misconduct including *plagiarism*, *fabrication* (falsification), and *cheating* (collaboration). The penalty for violation ranges from sanctions of 0 score for particular assignment/paper/exam and immediate F for final grade, and up to expulsion from the university. Please visit <http://www.iuj.ac.jp/ir-info/cheating-policy/> and check official definition of plagiarism and cheating.

- A student must not reproduce ideas, phrases, or sentences of another person without appropriate acknowledgment (**plagiarism**). Students must give credit to the originality of others and acknowledge an indebtedness whenever they quotes/paraphrases another person's actual words, either oral or written; employs another person's idea, opinion, or theory; or borrows facts, statistics, or other illustrative materials. Copying and pasting some parts of textbooks, journal articles, and/or Internet resources without citation involves both plagiarism and fabrication. Be honest with yourself and the instructor by clearly distinguishing your ideas from others' ideas.
- **Cheating** is an attempt to use or provide unauthorized assistance, materials, information, or others. Most common examples include discussing problem solving, looking at (stealing) other' work, showing your work to other students, sharing electronic files (Excel and wordprocessor) with other students, and using unauthorized external assistance such as tutors, commercial companies, and electronic devices (e.g., smartphone). In order to avoid unintended cheating, keep your own work in a safe place.
- All aspects of IUJ' student code of conduct (see students' curriculum handbook) apply to this class. It is students' responsibility to be aware of IUJ's policy on academic dishonesty and misconduct including harassments (<http://www.iuj.ac.jp/oss/seeking-assistance/>) and plagiarism (<http://www.iuj.ac.jp/ir-info/cheating-policy/>). Misunderstanding ("I thought copying only one sentence is

O.K.”) or ignorance (“I didn’t know that”) of dishonesty and misconduct are not acceptable in any circumstance. If you need clarification regarding this issue, contact the instructor or OAA (ofcgsir@iuj.ac.jp) immediately.

Several DO NOTS:

- Can I get external assistance from my friends or parents? *No.*
- Can I copy or steal work (i.e., exam and homework) of my friends? *No.*
- Can I ask (force) my friends to show their work? *No.*
- Can I work together (collaborate) with my friends to do homework? *No.*
- Can I share MS-Word or Excel files (collaborate) with my friends? *No.*
- Can I copy sentences or paragraphs of a book without quotes or citation? *No.*
- Can I borrow word, idea, and opinion of others without relevant citation? *No.*
- Can I copy expressions from the Internet (e.g., Wiki) without relevant citation? *No.*
- Can I present statistics (numbers) or graphs without relevant citation? *No.*

Course Feedback: Given diversity in their backgrounds, students are always encouraged to make comments and suggestions on this class (e.g., reading load, lecturing, presentation, and class discussion) in order to improve this course. If you don’t feel comfortable studying in the class, do not hesitate to talk to the instructor. Any form of communication (e.g., walk-in, phone, email, facebook, etc.) will do. A good feedback may be awarded extra credits. No feedback will influence your grade negatively in any circumstance.

Use of Electronic Devices: Before each class and lab begins, students MUST turn off their cellular phone (smart phone), iPad, Galaxy tablet, and/or CD/MP3/DMB players. Also you may not use other electronic devices that may distract the instructor and their classmates. However, laptops or netbooks (mini laptops) are allowed for use in class unless they disturb others.

Computer Literacy: Students should be able to access computers in IUJ computer clusters and be familiar with wordprocessors (e.g, Microsoft Word and WordPerfect), and Web browsers (e.g., Firefox and Safari). If you are not feeling comfortable in this computing requirement, please talk to the instructor IMMEDIATELY.

IUJ Electronic mail: All students must use the university electronic mail to communicate with the instructor and other classmates. Students SHOULD peruse emails that the instructor sends in order for additional explanation and comments. You may not misuse email (e.g., a message without a title of email and sender’s identity, a message containing irrelevant expressions and infringement of privacy, and a message sent to receivers who are not related to the subject).

Course Web Page: <http://www.sonsoo.org/itis/pmisp/> provides the latest course schedule, announcements, and various course materials including lecture notes. Students MUST visit this Web page time to time to check announcements and materials available.

READING MATERIALS

This course requires one textbook below, selective book chapters, journal articles, and video clips. Lecture notes will be provided through the course Web page. Please print them out and carry their hardcopies with you; electronic copies are not as effective as hardcopies in class! Students should read all required readings listed in the course schedule before the class.

Stair, Ralph M., and George W. Reynolds. 2016. *Principles of Information Systems*. 12th ed. Course Technology & Cengage Learning. ISBN 978-1285867168.

Students are recommended reading the following books depending on their interests. Aspray (2004), Chen et al. (2008), Shea & Garson (2010), Rocheleau (2006) provide a big picture of information technology policy and electronic government. Students will study intellectual property right and software license from Aspray (2004) and Chang (2007). Coronel, Morris, & Rob (2013) and Hoffer, George & Valacich (2010) discuss system analysis and design of databases and information systems. Thatcher et al. (2006), although technical somehow, provide good backgrounds for the accessibility of Web sites and Web standards including World Wide Web Consortium's (<http://www.w3.org>) Web Content Accessibility Guidelines (WCAG) and the U.S. Section 508. These books are reserved at the library.

Aspray William, ed. 2004. *Chasing Moore's Law: Information Technology Policy in the United States*. Raleigh, NC: Scitech Publishing. ISBN 1891121332.

Bellamy, Christine, and John A. Taylor. 1998. *Governing in the Information Age*. Philadelphia, PA: Open University Press. ISBN 978-0335194506.

Brown, Mary, G. David Garson. 2013. *Public Information Management and E-Government: Policy and Issues*. IGI Global. ISBN 978-1466630031.

Chang, Ha-joon. 2007. *Bad Samaritans: The Myth of Free Trade and the Secret History of Capitalism*. Bloomsbury Pres. ISBN 978-1596915985.

Chen, Hsinchun, Lawrence Brandt, Valerie Gregg, Roland Traunmuller, Sharon Dawes, Eduard Hovy, Ann Macintosh, and Catherine A. Larson, eds. 2008. *Digital Government: E-Government Research, Case Studies and Implementation*. New York: Springer. ISBN 0387716106.

Coronel, Carlos, Steven Morris, and Peter Rob. 2013. *Database Principles: Fundamentals of Design, Implementation, and Management*. 10th ed. Cengage Learning EMEA. ISBN 978-1133311973.

DuBois, Paul. 2007. *MySQL Cookbook*. 2nd ed. Sebastopol, CA: O'Reilly. ISBN 978-0596527082.

Harper, Simon, and Yeliz Yesilada, eds. 2010. *Web Accessibility: A Foundation for Research*. Springer-Verlag London. ISBN 978-1848000490

Hoffer, Jeffrey A., Joey George, and Joe Valacich. 2013. *Modern Systems Analysis and Design*, 7th ed. Pearson Education. ISBN 978-0132991308.

Lessig, Lawrence. 2006. *Code: Version 2.0*, 2nd ed. New York: Basic Books. ISBN 978-0465039142.

Molinaro, Anthony. 2005. *SQL Cookbook*, 1st ed. Sebastopol, CA: O'Reilly. ISBN 978-0596009762.

Norris, Donald F. 2008. *E-Government Research: Policy and Management*. Hershey: IGI Publishing. ISBN 978-1599049137.

Reddick, Christopher G., ed. 2012. *Cases on Public Information Management and E-Government Adoption*. Hershey, PA: Information Science Reference. ISBN 978-1466609822.

Rocheleau, Bruce A. 2006. *Public Management Information Systems*. Hershey, PA: Idea Group Publishing. ISBN-10: 1591408075.

Scholl, Hans J., ed. 2014. *E-Government: Information, Technology, and Transformation*. Routledge. ISBN 978-0765619891.

Shea, Christopher M., and G. David Garson. 2010. *Handbook of Public Information Systems*. Boca Raton, FL: CRC Press. ISBN 1439807566.

- Stair, Ralph, and George Reynolds. 2012. *Information Systems*. 10th ed. Course Technology & Cengage Learning. ISBN 978-1111-532932 (International Edition).
- Stair, Ralph, and George Reynolds. 2015. *Fundamentals of Information Systems*. 8th ed. Course Technology & Cengage Learning. ISBN 978-1305082168.
- Thatcher, Jim, Michael R. Burks, Christian Heilmann, Shawn Lawton Henry, Andrew Kirkpatrick, Patrick H. Lauke, Bruce Lawson, Bob Regan, Richard Rutter, Mark Urban, and Cynthia D. Waddell, eds. 2006. *Web Accessibility: Web Standards and Regulatory Compliance*. Berkeley, CA: Friends of. ISBN 1590596382.
- Weerakkody, Vishanth, and Christopher G. Reddick, eds. 2012. *Public Sector Transformation Through E-Government: Experiences from Europe and North America*. Routledge. ISBN 978-0415527378.
- White, Jay D. 2007. *Managing Information in the Public Sector*. Routledge. ISBN 978-0765617491.

In order to get the electronic copy of a journal article, (1) visit IUJ's E-journal portal, (2) provide a journal name (e.g., *Public Administration Review*), (3) choose a source (e.g., JSTOR and EBSCO) of the journal, and then (4) find out the paper using its title, author name, year of publication, volume, and/or number.

WEEKLY SCHEDULE

* This schedule is tentative and subject to change. Related video clips and Internet resources are listed on the course Web page. Students should check the latest schedule on the course Web page from time to time. Lab schedules will be adjusted depending of preparation of the course Web/database server.

1st Week: Introduction (04/05)

The first week introduces public management information systems and discusses similarity and difference between public and private information systems.

Required:

- Rocheleau (2006) Chapter 1 (pp. 1-22).
- Bozeman, Barry, and Stuart Bretschneider. 1986. Public management information systems: Theory and prescription. *Public Administration Review* 46(6): 475-487.

Optional:

- Bretschneider, Stuart. 1990. Management Information Systems in Public and Private Organizations: An Empirical Test. *Public Administration Review* 50(5): 536-545.
- Caudle, Sharon L., Wilpen L. Gorr, and Kathryn E. Newcomer. 1991. Key Information Systems Management Issues for the Public Sector. *MIS Quarterly* 15(2): 171-188.
- Danziger, James N. and Kim Viborg Andersen. 2002. The Impacts of Information Technology on Public Administration: An Analysis of Empirical Research from the 'Golden Age' of Transformation. *International Journal of Public Administration* 25(5): 591-627.
- Kraemer, Kenneth L., and Jason Dedrick. 1997. Computing and Public Organizations. *Journal of Public Administration Research and Theory* 7(1): 89-112.

- Kraemer, Kenneth L., and John L. King. 2006. Information Technology and Administrative Reform: Will E-Government Be Different? *International Journal of Electronic Government Research* 2(1): 1-20.
- Rocheleau, Bruce, and Liangfu Wu. 2002. Public versus Private Information Systems: Do They Differ in Important Ways? A Review and Empirical Test. *American Review of Public Administration* 32(4): 379-397.
- Weerakkody, Vishanth, and Christopher G. Reddick. 2013. Public Sector Transformation Through E-Government. In *Public Sector Transformation Through E-Government: Experiences from Europe and North America*, edited by Vishanth Weerakkody and Christopher G. Reddick, 1-6. New York: Routledge.

Lab: UNIX Basics

2nd Week: System Analysis and Design (04/12)

This week discusses how information systems are initiated and how information systems are designed and developed.

Required:

- Stair and Reynolds (2016) Chapter 12 (pp. 548-584).

Optional:

- Anthopoulos, Leonidas, Christopher G. Reddick, Irene Giannakidou, and Nikolaos Mavridis. 2016. Why E-Government Projects Fail? An Analysis of the Healthcare.gov Website. *Government Information Quarterly* 33(1): 161-173.
- Hoffer, George, & Valacich (2013) Chapter 6-8.
- Morley and Parker (2012) Chapter 12.

Lab: Basic SQL

- Coronel, Morris, Rob (2013) Chapter 5 and 6.
- Hoffer, Ramesh, and Topi (2011) Chapter 6 and 7.

3rd Week: Adoption of Information Systems (04/19)

It will be important to understand how citizens adopt and use public information and services when designing e-government services and applications.

Required:

- Davis, F. D. 1989. Perceived Usefulness, Perceived Ease of Use, and User Acceptance of Information Technology. *MIS Quarterly* 13(3): 319-340.
- DeLone, William H., and Ephraim R. McLean. 2003. The DeLone and McLean Model of Information Systems Success: A Ten-Year Update. *Journal of Management Information Systems* 19(4): 9-30.
- Goodhue, Dale L. and Ronald L. Thompson. 1995. Task-Technology Fit and Individual Performance. *MIS Quarterly* 19(2): 213-236.

Optional:

- Adams, Dennis A., R. Ryan Nelson, and Peter A. Todd. 1992. Perceived Usefulness, Ease of Use, and Usage of Information Technology: A Replication. *MIS Quarterly* 16(2): 227-247.

- Au, N., Ngai, E. W. T., and Cheng, T. C. E. 2008. Extending the Understanding of End User Information Systems Satisfaction Formation: An Equitable Needs Fulfillment Model Approach. *MIS Quarterly* 32(1): 43-66.
- Burton-Jones, Andrew, and Gallivan, Michael J. 2007. Toward a Deeper Understanding of System Usage in Organizations: A Multilevel Perspective. *MIS Quarterly* 31(4): 657-679.
- DeLone, William H. and Ephraim R. McLean. 1992. Information Systems Success: The Quest for the Dependent Variable. *Information Systems Research* 3(1): 60-95.
- Devaraj, S., and Kohli, R. 2003. Performance Impacts of Information Technology: Is Actual Usage the Missing Link? *Management Science* 49(3): 273-289.
- Huang, Chaomeng James, and Mei-Hui Chao. 2001. Managing WWW in Public Administration: Uses and Misuses. *Government Information Quarterly* 18(4): 357-373.
- Huang, Zhao, and Morad Benyoucef. 2014. Usability and Credibility of E-Government Websites. *Government Information Quarterly* 31(4): 584-595.
- Iivari, Juhani. 2005. An Empirical Test of the DeLone-McLean Model of Information System Success. *Data Base for Advances in Information Systems* 36(2): 8-27.
- Legris, Paul, John Ingham, and Pierre Colletette. 2003. Why Do People Use Information Technology? A Critical Review of the Technology Acceptance Model. *Information and Management* 40(3): 191-204.
- Li, Meng-Hao and Mary K. Feeney. 2014. Adoption of Electronic Technologies in Local U.S. Governments: Distinguishing Between E-Services and Communication Technologies. *American Review of Public Administration* 44(1): 75-91.
- Rana, Nripendra P., and Yogesh K. Dwivedi. 2015. Citizen's Adoption of an E-Government System: Validating Extended Social Cognitive Theory (SCT). *Government Information Quarterly* 32(2): 172-181.
- Seo, Dongback, and Michel Bernsen. 2016. Comparing Attitudes Toward E-Government of Non-Users versus Users in a Rural and Urban Municipality. *Government Information Quarterly* 33(2): 270-282.
- Venkatesh, V., and Davis, F. D. 2000. A Theoretical Extension of the Technology Acceptance Model: Four Longitudinal Field Studies. *Management Science* 46(2): 186-204.
- Venkatesh, Viswanath, and Hillol Bala. 2008. Technology Acceptance Model 3 and a Research Agenda on Interventions. *Decision Sciences* 39(2): 273-315.
- Venkatesh, Viswanath, Hartmut Hoehle, and Ruba Aljafari. 2014. A Usability Evaluation of the Obamacare Website. *Government Information Quarterly* 31(4): 669-680.
- Venkatesh, Viswanath, Michael G. Morris, Gordon B. Davis, and Fred D. Davis. 2003. User Acceptance of Information Technology: Toward a Unified View. *MIS Quarterly* 27(3): 425-478.

Lab: Advanced SQL (Joining Tables)

- Coronel, Morris, Rob (2013) Chapter 5 and 6.
- Hoffer, Ramesh, and Topi (2011) Chapter 6 and 7.

4th Week: Public Information and Services (04/26)

This week discusses development strategies (selection and concentration) of public information and services for e-government.

Required:

- Rocheleau (2006) Chapter 2 (pp. 23-55), 4 (pp. 100-127), and 5 (pp. 140-157).
- Park, Hun Myoung. 2015. Should E-Government Be Transformational and Participatory? An Essay on E-Government in the Utilitarian Mode of Information Technology Use. *Proceedings of the 48th Hawaii International Conference on System Sciences (HICSS-48)* in Kauai, HI, January 5-8, 2015.

Optional:

- Ho, Alfred Tat-Kei, and Anna Y. Ni. 2004. Explaining the Adoption of E-Government Features: A Case Study of Iowa County Treasurers' Offices. *American Review of Public Administration* 34(2): 164-180.
- Jun, Kyu-Nahm, and Christopher Weare. 2011. Institutional Motivations in the Adoption of Innovations: The Case of E-Government. *Journal of Public Administration Research and Theory* 21(3): 495-519.
- Gonzalez-Zapata, Felipe, and Richard Heeks. 2015. The Multiple Meanings of Open Government Data: Understanding Different Stakeholders and Their Perspectives. *Government Information Quarterly* 32(4): 441-451.
- Park, Hun Myoung. 2005. A Costs Benefits Analysis of the Seoul OPEN System: Policy Lessons for Electronic Government Projects. *Proceedings of the 38th Hawaii International Conference on System Sciences* in Hawaii, HI, January 3-6, 2005.

Lab: PHP Basics**5th Week: Web Standards and Accessibility (05/03)**

This week discusses Web standards and policy issues of Web accessibility in government Web sites.

Required:

- Jaeger, Paul T. 2006. Assessing Section 508 Compliance on Federal E-Government Web Sites: A Multi-Method, User-Centered Evaluation of Accessibility for Persons with Disabilities. *Government Information Quarterly* 23: 169-190.
- Park, Hun Myoung. 2012. The Web accessibility Crisis of Korea's Electronic Government: Fatal Consequences of the Digital Signature Law and Public Key Certificate. *Proceedings of the 45th Hawaii International Conference on System Sciences* in Hawaii, HI, January 4-7, 2012.

Optional:

- Becker, Shirley Ann. 2004. E-government Visual Accessibility for Older Adult Users. *Social Science Computer Review* 22(1): 11-23.
- Becker, Shirley Ann. 2005. E-government Usability for Older Adults. *Communications of the ACM* 48(2): 102-104.
- Becker, Shirley Ann. 2008. Accessibility of Federal Electronic Government. In *Digital Government: E-Government Research, Case Studies, and Implementation*, edited by Chen, Hsinchun, Lawrence Brandt, Valerie Gregg, Roland Traunmuller, Sharon Dawes et al., 141-155. New York: Springer.
- Hong, Soongoo, Pairin Katerattanakul, and Seok Jeong Joo. 2008. Evaluating Government Website Accessibility: A Comparative Study. *International Journal of Information Technology and Decision Making* 7(3): 491-515.

- Jaeger, Paul T. 2008. User-Centered Policy Evaluations of Section 508 of the Rehabilitation Act. *Journal of Disability Policy Studies* 19(1): 24-33.
- Lessig, Lawrence. 2006. Chapter 1. Code Is Law and Chapter 2. Four Puzzles from Cyberspace. In *Code: Version 2.0*, 2nd ed., 1-28. New York: Basic Books.
- Olalere, Abiodun, and Jonathan Lazar. 2011. Accessibility of U.S. Federal Government Home Pages: Section 508 Compliance and Site Accessibility Statements. *Government Information Quarterly* 28(3): 303-309.
- Palmer, Jonathan W. 2002. Web Site Usability, Design, and Performance Metrics. *Information Systems Research* 13: 151-167.
- Shi, Yuquan. 2006. E-Government Web Site Accessibility in Australia and China: A Longitudinal Study. *Social Science Computer Review* 24(3): 378-385.
- Yi, Yong Jeong. 2015. Compliance of Section 508 in Public Library Systems with the Largest Percentage of Underserved Populations. *Government Information Quarterly* 32(1): 75-81.

Lab: Web Programming Basics

Book chapter review due May 8

6th Week: Software Copyright and Acquisition (05/10)

This week discusses software copyright, licensing, and open source software (OSS).

Required:

- Aspray (2004) Chapter 7 (Intellectual property, pp. 201-207).
- Chang (2007) Chapter 6 (pp. 109-133).
- Stair and Reynolds (2016) Chapter 4 (pp. 203-207).

Optional:

- Bordoloi, Bijoy, Ilami, Paul, Mykytyn Jr, Peter P. and Mykytyn, Kathleen. 1996. Copyrighting Computer Software: The “look and Feel” Controversy and Beyond. *Information and Management* 30(5): 211-221.
- Chen, Chun-Shuo, and Terrence A. Maxwell. 2010. Three Decades of Bilateral Copyright Negotiations: Mainland China and the United States. *Government Information Quarterly* 27(2): 196-207.
- Cole, Roland J., and Mary Jane Frisby. 2010. Intellectual Property for Public Managers. In *Handbook of public information systems*, 3th ed., edited by Christopher M. Shea and G. David Garson, 103-119. Boca Raton, FL: CRC Press.
- Gallaway, Terrel, and Douglas Kinnear. 2004. Open Source Software, the Wrongs of Copyright, and the Rise of Technology. *Journal of Economic Issues* 38(2): 467-474.
- Rupp-Serrano, Karen. 1997. Copyright and Fair Use: A Policy Analysis. *Government Information Quarterly* 14(2): 155-172.
- Vaidhyathan, Siva. 2001. *Copyrights and Copywrongs: The Rise of Intellectual Property and How It Threatens Creativity*. New York: New York University Press.
- Van Loon, Alexander, and Dimiter Toshkov. 2015. Adopting Open Source Software in Public Administration: The Importance of Boundary Spanners and Political Commitment. *Government Information Quarterly* 32(2): 207-215.

Lab: Web Programming Practice 1

7th Week: Financing and Implementation (05/17)

This week discusses how to finance public information systems with focus on outsourcing and how to implement information systems.

Required:

- Chen, Yu-Che, and Kurt Thurmaier. 2008. Advancing E-Government: Financing Challenges and Opportunities. *Public Administration Review* 68(3): 537-548.
- Rocheleau (2006) Chapter 3 (pp. 56-99) and Chapter 5 (pp. 134-145).
- Stair and Reynolds (2016) Chapter 13 (pp. 596-601).

Optional:

- Brown, Maureen Mary, and Brudney, Jeffrey L. 1998. A 'Smarter, Better, Faster, and Cheaper' Government: Contracting and Geographic Information Systems. *Public Administration Review* 58(4): 335-345.
- Chen, Yu-Che, and James L. Perry. 2003. Outsourcing for E-Government: Managing for Success. *Public Performance and Management Review* 26(4): 404-421.
- Han, Kunsoo, and Sunil Mithas. 2013. Information Technology Outsourcing and Non-IT Operating Costs: An Empirical Investigation. *MIS Quarterly* 37(1): 315-331.
- Marvel, Mary K., and Howard P. Marvel. 2007. Outsourcing Oversight: A Comparison of Monitoring for In-House and Contracted Services. *Public Administration Review* 67(3): 521-530.
- Ni, Anna Ya, and Stuart Bretschneider. 2007. The Decision to Contract Out: A Study of Contracting for E-Government Services in State Governments. *Public Administration Review* 67(3): 531-544.
- Rose, Wade R. Rose, and Gerald G. Grant. 2010. Critical Issues Pertaining to the Planning and Implementation of E-Government Initiatives. *Government Information Quarterly*, 27(1): 26-33.

Lab: Web Programming Practice 2

8th Week: Maintenance and Evaluation (05/24)

This week discusses maintenance and evaluation of public information systems.

Required:

- Rocheleau (2006) Chapter 5 (pp. 157-168), 7 (pp. 216-235), 9 (pp. 274-207).
- Stair and Reynolds (2016) Chapter 13 (610-636).

Optional:

- Alshawi, Sarmad, and Hamid Alalwany. 2009. E-Government Evaluation: Citizen's Perspective in Developing Country. *Information Technology for Development* 15(3): 193-208.
- Sharma, Rajeev and Yetton, Philip. 2007. The Contingent Effects of Training, Technical Complexity, and Task Interdependence on Successful Information Systems Implementation. *MIS Quarterly* 31(2): 219-238.
- Ayanso, Anteneh, Dipanjan Chatterjee, and Danny I. Cho. 2011. E-Government Readiness Index: A Methodology and Analysis. *Government Information Quarterly* 28(4): 522-532.

- Doll, William J., Deng, Xiaodong, Raghunathan, T.S., Torkzadeh, Gholamreza, and Xia, Weidong. 2004. The Meaning and Measurement of User Satisfaction: A Multigroup Invariance Analysis of the End-User Computing Satisfaction Instrument. *Journal of Management Information Systems* 21(1): 227-262.
- Gupta, M.P., Debashish Jana. 2003. E-government Evaluation: A Framework and Case Study. *Government Information Quarterly* 20: 365-387.
- Henriksson, Anders, Yiori Yi, Belinda Frost, and Michael Middleton. 2007. Evaluation Instrument for E-Government Websites. *International Journal of Electronic Government* 4(2): 204-226.
- Newcomer, Ksthryn E., and Sharon L. Caudle. 1991. Evaluating Public Sector Information Systems: More Than Meets the Eye. *Public Administration Review* 51(5): 377-384.
- Tippins, M. J. and Sohi, R. S. 2003. IT Competency and Firm Performance: Is Organizational Learning a Missing Link? *Strategic Management Journal* 24(8): 745-761.

Final exam (take-home exam in week 11)