

LIS 598 Technology, Information and Society [IT]
Course Schedule
Winter 2019
(on-campus)

Week 1 - class meets Jan 8, 6pm, Education South 255

Introduction to technology, information, and society

- Review all important course documents and assignment instructions!
- Readings this week:
 - Abras, C., Maloney-Krichmar, D., & Preece, J. (2004). User-centered design. In W. Bainbridge (Ed.), *Berkshire encyclopedia of human-computer interaction*. Thousand Oaks, CA: Sage. [[Preprint PDF available online](#)]
 - Kling, R. (2007). What is social informatics and why does it matter? *The Information Society*, 23(4), 205-220. <https://doi.org/10.1080/01972240701441556> [Originally published 1999 in *D-Lib Magazine*]
- Attend our first class (Tue Jan 8th, 6pm, Education South 255)
 - Course introduction
 - Activity: Getting to know you (and me!)
 - Discussion: Why (and how) are technology, information, and society related?
 - Activity: Choose partner and reading for Article Presentation and Discussion Leading

UNIT 1: Human Perspectives

Week 2 - class meets Jan 15, your first Discussion Sparks due Jan 14 9pm

Human-centred design and usability

- Readings this week:
 - Matera, M., Rizzo, F., & Carughi, G. T. (2006). Web usability: Principles and evaluation methods. In E. Mendes & N. Mosley (Eds.), *Web engineering* (Chapter 5, pp. 143-180). Berlin, Germany: Springer. https://doi.org/10.1007/3-540-28218-1_5
 - Hanrath, S., & Kottman, M. (2015). Use and usability of a discovery tool in an academic library. *Journal of Web Librarianship*, 9(1), 1-21. <https://doi.org/10.1080/19322909.2014.983259>
- Class this week:
 - Discussion: The importance of human users
 - Activity: Humans in technology design

Week 3 - class meets Jan 22, Discussion Sparks due Jan 21 9pm

Human-computer interaction (HCI) and cognition

- Readings this week:
 - Makri, S., Blandford, A., Gow, J., Rimmer, J., Warwick, C., & Buchanan, G. (2007). A library or just another information resource? A case study of users' mental models of traditional and digital libraries. *Journal of the American Society for Information Science and Technology*, 58(3), 433–445. <https://doi.org/10.1002/asi.20510>
 - Rogers, Y. (2004). New theoretical approaches for human-computer interaction. *Annual Review of Information Science and Technology*, 38, 87–143. <https://doi.org/10.1002/aris.1440380103>
- Class this week:
 - Discussion: Theories of humans, cognition, and technology
 - Activity: Human cognition and usability

Week 4 - class meets Jan 29, Discussion Sparks due Jan 28 9pm

Human-centred computing (HCC)

- Readings this week:
 - Jaimes, A., Gatica-Perez, D., Sebe, N., & Huang, T. S. (2007). Human-centered computing: Toward a human revolution. *Computer*, 40(5), 30-34. <https://doi.org/10.1109/MC.2007.169>
 - Bannon, L. (2011, July/August). Reimagining HCI: Toward a more human-centered perspective. *Interactions*, 18(4), 50-57. <https://doi.org/10.1145/1978822.1978833>
 - Rinkus, S., Walji, M., Johnson-Throop, K. A., Malin, J. T., Turley, J. P., Smith, J. W., & Zhang, J. (2005). Human-centered design of a distributed knowledge management system. *Journal of Biomedical Informatics*, 38(1), 4–17. <https://doi.org/10.1016/j.jbi.2004.11.014>
- Class this week:
 - Discussion: Human-centred perspectives and theories
 - Activity: Humans in technology design, revisited

UNIT 2: Social Perspectives

Week 5 - class meets Feb 5, Discussion Sparks due Feb 4 9pm

Social informatics

- Reports on human perspectives on LIS technology due Feb 5 5pm
- Readings this week:
 - Meyer, E. T. (2014). Examining the hyphen: The value of social informatics for research and teaching. In P. Fichman & H. Rosenbaum (Eds.), *Social informatics: Past, present, and future* (Chapter 3, pp. 56-72). Newcastle, UK: Cambridge Scholars Publishing. [[PDF preprint available online](#)]
 - Kling, R., Rosenbaum, H., & Sawyer, S. (2005). Social informatics for designers, developers, and implementers of ICT-based systems. In *Understanding and communicating social informatics: A framework for studying and teaching the human contexts of information and communication technologies* (Chapter 3, pp. 33-50). Medford, NJ: Information Today. [PDF available via eClass]
- Class this week:
 - Discussion: Many humans, many technologies
 - Activity: Social informatics design implications

Week 6 - class meets Feb 12, Discussion Sparks due Feb 11 9pm

Sociotechnical infrastructure

- Readings this week:
 - Sawyer, S., & Jarrahi, M. H. (2014). Sociotechnical approaches to the study of information systems. In H. Topi & A. Tucker (Eds.), *Computing handbook: Information systems and information technology* (3rd ed., pp. 5-1 - 5-27). Boca Raton, FL: CRC Press. <https://doi.org/10.1201/b16768>
 - Star, S. L., & Ruhleder, K. (1996). Steps toward an ecology of infrastructure: Design and access for large information spaces. *Information Systems Research*, 7(1), 111–134. <https://doi.org/10.1287/isre.7.1.111>
 - Zuiderwijk, A., & Janssen, M. (2014). Barriers and development directions for the publication and usage of open data: A socio-technical view. In M. Gascó-Hernández (Ed.), *Open government: Opportunities and challenges for public governance* (Chapter 8, pp. 115-135). New York, NY: Springer. https://doi.org/10.1007/978-1-4614-9563-5_8
- Class this week:
 - Discussion: Sociotechnical infrastructures
 - Activity: Social, technical, both?

Week 7 - **NO CLASS** - Winter Term Reading Week

Week 8 - class meets Feb 26, Discussion Sparks due Feb 25 9pm

Organizational and community informatics

- Readings this week:
 - Orlikowski, W. J., & Robey, D. (1991). Information technology and the structuring of organizations. *Information Systems Research*, 2(2), 143–169. <https://doi.org/10.1287/isre.2.2.143>
 - Williams, K., & Durrance, J. C. (2008). Social networks and social capital: Rethinking theory in community informatics. *The Journal of Community Informatics*, 4(3). Retrieved from <http://www.ci-journal.net/index.php/ciej/article/view/465>
 - Kling, R., McKim, G., & King, A. (2003). A bit more to IT: Scholarly communication forums as Socio-Technical Interaction Networks. *Journal of the American Society for Information Science and Technology*, 54(1), 47-67. <https://doi.org/10.1002/asi.10154>
- Class this week:
 - Discussion: Organizations, technology, and information
 - Activity: Social and informational ties: Applying STINs

UNIT 3: Critical Perspectives

Week 9 - class meets Mar 5, Discussion Sparks due Mar 4 9pm

Policy and governance

- Reports on social perspectives on LIS technology due Mar 5 5pm
- Readings this week:
 - Bertot, J. C., Jaeger, P. T., & Grimes, J. M. (2010). Using ICTs to create a culture of transparency: E-government and social media as openness and anti-corruption tools for societies. *Government Information Quarterly*, 27(3), 264–271. <https://doi.org/10.1016/j.giq.2010.03.001>
 - Zhu, X. (2016). Driven adaptation: A grounded theory study of licensing electronic resources. *Library and Information Science Research*, 38(1), 69–80. <https://doi.org/10.1016/j.lisr.2016.02.002>
- Class this week:
 - Discussion: LIS, intellectual freedom, technology, and governance
 - Activity: Technology policies
 - Activity: Choosing groups for LIS Technology Case Studies

Week 10 - class meets Mar 12, Discussion Sparks due Mar 11 9pm

Social justice

- Readings this week:
 - Koepfler, J. A., Mascaro, C., & Jaeger, P. T. (2014). Homelessness, wirelessness, and (in)visibility: Critical reflections on the Homeless Hotspots Project and the ensuing online discourse. *First Monday*, 19(3).
<https://doi.org/10.5210/fm.v19i3.4846>
 - Eubanks, V. (2011). Popular technology. In *Digital dead end: Fighting for social justice in the information age* (Chapter 6, pp. 99-127). Cambridge, MA: MIT Press. [[Available as an ebook from U of A Libraries](#)]
 - Fleischmann, K. R. (2011). The public library in the life of the Internet: How the core values of librarianship can shape human-centered computing. In J. C. Bertot, P. Jaeger, & C. R. McClure (Eds.), *Public libraries and the Internet: Roles, perspectives, and implications* (Chapter 6, pp. 91-102). Santa Barbara, CA: Libraries Unlimited. [PDF available via eClass]
- Class this week:
 - Discussion: Technology and social justice
 - Activity: Technology for social good

Week 11 - class meets Mar 19, Discussion Sparks due Mar 18 9pm

Gender and identity

- Readings this week:
 - Wajcman, J. (2010). Feminist theories of technology. *Cambridge Journal of Economics*, 34(1), 143-152. <https://doi.org/10.1093/cje/ben057>
 - Duguay, S. (2014). "He has a way gayer Facebook than I do": Investigating sexual identity disclosure and context collapse on a social networking site. *New Media and Society*, 18(6), 891-907. <https://doi.org/10.1177/1461444814549930>
 - One or both of the following:
 - Hankerson, D., Marshall, A. R., Booker, J., El Mimouni, H., Walker, I., & Roder, J. A. (2016). Does technology have race? In J. Kaye & A. Druin (Chairs), *Proceedings of the 2016 CHI conference on human factors in computing systems (CHI 2016)* (pp. 473-486), San Jose, CA, May 7-12, 2016. New York, NY: ACM. <https://doi.org/10.1145/2851581.2892578>
 - Fiesler, C., Morrison, S., & Bruckman, A. S. (2016). An archive of their own: A case study of feminist HCI and values in design. In J. Kaye & A. Druin (Chairs), *Proceedings of the 2016 CHI conference on human factors in computing systems (CHI 2016)* (pp. 2574-2585), San Jose, CA, May 7-12, 2016. New York, NY: ACM. <https://doi.org/10.1145/2858036.2858409>
- Class this week:
 - Discussion: Many humans, many technologies, revisited

- Activity: “You’re unique, just like everyone else”

UNIT 4: Emerging Perspectives

Week 12 - class meets Mar 26, Discussion Sparks due Mar 25 9pm

Archives, museums, repositories

- Reports on critical perspectives on LIS technology due Mar 26 5pm
- Readings this week:
 - Purdy, J. P. (2011). Three gifts of digital archives. *The Journal of Literacy and Technology*, 12(3), 24-49. Retrieved from http://www.literacyandtechnology.org/uploads/1/3/6/8/136889/jlt_v12_3_purdy.pdf
 - Gillette, E., O'Brien, H. L., & Bullard, J. (2011). Exploring technology through the design lens: A case study of an interactive museum technology. In H. Bruce & J. Grudin (Co-Chairs), *Proceedings of the 2011 iConference* (pp. 583–590), Seattle, WA, February 8-11, 2011. New York, NY: ACM. <https://doi.org/10.1145/1940761.1940840>
 - Rieger, O. Y. (2008). Opening up institutional repositories: Social construction of innovation in scholarly communication. *Journal of Electronic Publishing*, 11(3). <https://doi.org/10.3998/3336451.0011.301>
- Class this week:
 - Discussion: Technology across information organizations
 - Activity: Common lessons, emergent trends

Week 13 - class meets Apr 2, Discussion Sparks due Apr 1 9pm

Online communities and culture

- Readings this week:
 - Kazmer, M. M., Lustria, M. L. A., Cortese, J., Burnett, G., Kim, J.-H., Ma, J., & Frost, J. (2014). Distributed knowledge in an online patient support community: Authority and discovery. *Journal of the Association for Information Science and Technology*, 65(7), 1319–1334. <https://doi.org/10.1002/asi.23064>
 - Massanari, A. (2017). #Gamergate and The Fapping: How Reddit’s algorithm, governance, and culture support toxic technocultures. *New Media and Society*, 19(3), 329-346. <https://doi.org/10.1177/1461444815608807>
 - Albretchtslund, A.-M. B. (2017). Negotiating ownership and agency in social media: Community reactions to Amazon’s acquisition of Goodreads. *First Monday*, 22(5). <https://doi.org/10.5210/fm.v22i5.7095>
- Class this week:
 - Discussion: Community complexities
 - Activity: Technology bridging boundaries

Week 14 - class meets Apr 9

Group case study presentations

- LIS Technology Case Study reports due Apr 9 5pm
- No readings this week!
- Class this week:
 - Groups will present their LIS Technology Case Studies
 - Final wrap-up