

Craig M. MacDonald, Ph.D. Pratt Institute, School of Information 144 West 14th Street, Room 604c New York, NY 10011–7301 cmacdona@pratt.edu | http://www.craigmacdonald.com

LIS-644 Usability Theory and Practice Spring 2016

Tuesday 6:30-9:20p • Pratt Manhattan Center, Room 609

Credits: 3 Pre-requisites: none

Office Hours: Tuesdays 3-6p and by appointment

Bulletin Description

This course provides the theoretical and practical foundations for evaluating digital interfaces from a user-centered perspective. Through lectures, in-class activities, readings and individual and group assignments, students will learn and apply usability principles and gain hands-on experience with several common usability evaluation methods, including traditional user testing plus inspection- and field-based methods. Because the goal of evaluation is always to improve the underlying usability of an interface, the course will focus on effectively communicating evaluation results. At the conclusion of this course, students will possess the knowledge and skills necessary for successfully planning, conducting, and leading usability evaluations across a diverse array of organizations and industries.

Course Goals & Objectives

The goals of this course are to:

- Gain a theoretical understanding of usability and its relation to the user-centered design process.
- Provide practical experience with contemporary usability evaluation methods.
- Improve individual and collaborative skills in problem solving, communication, and creative thinking.

Upon successful completion of this course, a student will be able to:

- **Define** and **explain** the concept of usability using appropriate terminology.
- **Choose** and **employ** appropriate usability evaluation methods based on technical, practical and organizational contexts.
- **Develop** strategies for implementing a usability evaluation in accordance with industry standards.
- **Create** high-quality work products that effectively communicate evaluation results and are consistent with professional practice.

Required Readings

There are **two required texts** for this course. Additional readings will be available on the LMS.



Norman, D. (2002). *The Design of Everyday Things*. New York, NY: Basic Books. ISBN: 0465067107

Amazon: http://www.amazon.com/Design-Everyday-Things-Donald-Norman/dp/0465067107

[Note: This the 2002 edition of the book, not the revised 2013 edition.]



Barnum, C. M. (2011). Usability testing essentials: Ready, set...test! Burlington, MA: Morgan Kaufmann. ISBN: 012375092X

Amazon: http://www.amazon.com/Usability-Testing-Essentials-Ready-Test/dp/012375092X/

Assessment and Grading

The overall course grade will be based on a total of 200 points, weighted as follows:

Note: (i) = individual assignment; (g) = group assignment

- 20% Two posts on the UX @ Pratt blog10% Design Critique (i)10% Usability in the Real World (i)
- 20% Cognitive Walkthrough Report (i)
- **20%** Heuristic Evaluation Report (i)
- **20%** Diary Study Report (g) **This assignment is e-Portfolio eligible (Research; User-Centered Focus)
- **20%** User Test Report (g)

**This assignment is e-Portfolio eligible (Research; User-Centered Focus)

Detailed descriptions of each assignment will be distributed in class and posted to the LMS.

Grades will be awarded for points accumulated based on Pratt's grading scale:

Excellent	А	4.0 (93-100)	A-	3.7 (90-92.99)		
Above Average	B+	3.3 (87-89.99)	В	3.0 (83-86.99)	B-	2.7 (80-82.99)
Acceptable	C+	2.3 (77-79.99)	С	2.0 (73-76.99)		
Failure	F	0.0 (00-72.99)				

Course Schedule

Date	Topic	Due
1	Welcome + Introduction to Evaluation	
⊥ Ion 10	 MacDonald, C. M., & Atwood, M. E. (2013). Changing 	
Jan 19	Perspectives on Evaluation in HCI: Past, Present, and Future. In	
	CHI '13 Extended Abstracts on Human Factors in Computing	
	Systems (CHI EA '13). New York, NY: ACM. 1969-1978.	
	 Kujala, S., & Miron-Shatz, T. (2013). Emotions, Experiences and 	
	Usability in Real-Life Mobile Phone Use. In Proceedings of the	
	SIGCHI Conference on Human Factors in Computing Systems (CHI	
	13). New York, NY: ACM. 1061-1070.	
ົງ	Writing Evaluation Reports	
	 Brown, D. (2011). Usability reports. In Communicating Design: 	
Jan 26	Developing Web Site Documentation for Design and Planning (2nd	
	Ed.) (pp. 274-288). Berkeley, CA: New Riders.	
	 Rogers, Y., Sharp, H., & Preece, J. (2011). Introducing Evaluation. 	
	In Interaction Design: Beyond Human-Computer Interaction (3 rd	
	Ed.) (pp. 433-451). Chichester: John Wiley & Sons, Inc.	
	• DOET: Ch. 1, 2, 3	
	The Design of Everyday Things + Intro to Cognitive	Blog #1
3	Walkthrough	BI0g #1
Feb 2	$\bullet \text{ DOET: Ch. 4 5 7}$	
4	LAB: Cognitive Walkthrough	CW Inputs
4	 LAB: Cognitive Walkthrough Wharton, C., Rieman, J., Lewis, C., & Polson, P. (1994). The 	CW Inputs
4 Feb 9	 LAB: Cognitive Walkthrough Wharton, C., Rieman, J., Lewis, C., & Polson, P. (1994). The Cognitive Walkthrough Method: A Practitioner's Guide. In J. 	CW Inputs
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4 Feb 9 5 Feb 16	 LAB: Cognitive Walkthrough Wharton, C., Rieman, J., Lewis, C., & Polson, P. (1994). The Cognitive Walkthrough Method: A Practitioner's Guide. In J. Nielsen, & R. Mack (Eds.), Usability inspection methods (pp. 105- 140). New York, NY: John Wiley & Sons, Inc. John, B. E., & Packer, H. Learning and Using the Cognitive Walkthrough Method: A Case Study Approach. In Proceedings of the 1995 SIGCHI Conference on Human Factors in Computing Systems (CHI '95). New York, NY: ACM. 429-436. Intro to Heuristic Evaluation Nielsen, J. (n.d.). How to conduct a heuristic evaluation. Retrieved from: http://www.nngroup.com/articles/how-to- 	CW Inputs CW Report
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6	LAB: Heuristic Evaluation + Analysis	HE Inputs
	 Sauro, J. (2012). The Value of Multiple Evaluators in Heuristic 	_
Feb 23	Evaluations. Retrieved from:	HE
	http://www.measuringusability.com/blog/he-multiple.php	Problems
	 Kientz, et al. (2010). Heuristic Evaluation of Persuasive Health 	(by end of
	Technologies. In Proceedings of the 1 st ACM International Health	class)
	Informatics Symposium (IHI '10). New York, NY: ACM. 555-564.	
7	Intro to Diary Studies + LAB	HE
Mor 1	 Rieman, J. (1993). The Diary Study: A Workplace-oriented 	Report
Ivial 1	Research Tool to Guide Laboratory Efforts. In Proceedings of the	
	INTERACT '93 and CHI '93 conference on Human factors in	Diary
	computing systems (CHI '93). New York, NY: ACM. 321-326.	Forms
	 Bruun, A., Gull, P., Hofmeister, L, & Stage, J. (2009) Let Your 	(by end of
	Users Do the Testing: A Comparison of Three Remote	clussj
	Asynchronous Usability Testing Methods. In Proceedings of the	
	2009 Conference on Human Factors in Computing Systems (CHI	
	<i>09)</i> . New York, NY: ACM. 1619-1628.	
	Recruiting Participants + IAR, Diary Study Analysis	Diany
8	• LITE Cb 2	Entries
Mar 8		(ind)
Mar	**NO CLASS - Spring Break**	(ind)
15		
10		
9	User Testing I: Prepare	DS
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9 Mar 22 10 Mar 29 11 Apr 5	 User Testing I: Prepare UTE, Ch. 6 LAB: User Testing Preparation No readings this week User Testing II: Collect Data UTE, Ch. 7 Nørgaard, M. & Hornbæk, K. (2006). What Do Usability Evaluators Do In Practice? An Explorative Study of Think-Aloud Testing. In Proceedings of the 6th Conference on Designing Interactive Systems (DIS '06). New York, NY: ACM. 209-218. 	DS Report
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14	LAB: User Testing Analysis & Reporting No readings this week 	
Apr 26		
May 3	**NO CLASS – Studio Days**	
15	Project Presentations & Course Wrap-Up	UT
May 10		Report
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Policies

Assignments

Because of the project-based nature of this course, all graded assignments must be uploaded to the LMS before class on the due date (unless otherwise noted) with no exceptions. Late assignments will be graded at 50% and assignments more than 24 hours late will not be graded.

Attendance & Participation

Although it is ungraded, active participation in class is essential to successful learning in this course. The course format may vary each week, but typical class sessions will consist of short lectures and small group activities that directly inform individual and group project deliverables.

Attendance is therefore expected and required. Students with 3 absences (for any reason, including documented medical reasons) cannot expect to receive an A in the course and, in accordance with Pratt Institute policy, may be asked to drop the class. **Please notify me ASAP if you know you will be absent.** You will be expected to make up any missed material for classes that you miss.

Additionally, there will be several activities throughout the term that must be completed before coming to class. These activities will not be graded but are essential to fulfilling course requirements, especially those that require group collaboration. Failure to complete these activities in a timely fashion will not only let down your classmates, it will have a negative impact on your overall learning experience.

Academic Honesty

Instances of cheating, plagiarism, and improper use of intellectual property will not be tolerated. Do not plagiarize or copy from anywhere, including articles, websites, class handouts, class slides, other students' work, web design templates, work you have submitted to another course, etc. Unless specifically indicated otherwise, all assignments submitted for this course must be **your own work**, with sources properly cited.

Any assignment that includes copied material will be given an automatic *zero* – this includes cases where only a portion of the assignment is copied. Depending on the nature of the offense, this may also result in failure of the course. **No excuses will be accepted**. More information about Pratt's academic integrity code can be found at: http://www.prattsenate.org/learning/02-academic.htm

Communication

The best way to contact me is by email (<u>cmacdona@pratt.edu</u>). I check e-mail regularly and you can expect an email response within 24 hours. Should that change, you will be notified in advance.

Disabilities

Students who require special accommodations for disabilities must obtain clearance from the Office of Disability Services at the beginning of the semester. For further information, contact the Coordinator of Disability Services at 718.636.3711.

Incompletes

Incompletes will not be awarded except for documented medical reasons.

Institute-Wide Policies

All Institute-wide policies are listed in the Bulletin under "Community Standards" available online at http://www.pratt.edu/student life/student affairs/student policies/ and which include policies on attendance, academic integrity, plagiarism, computer, and network use.

Laptops & Cell phones

Please turn your cell phone off during class. Laptops are permitted for coursework purposes only.

Research Participation

As part of this course, students may be asked to participate in research studies conducted by SILS faculty.

Revisions to the Syllabus

While this syllabus provides a reliable framework for the course, it is it is possible that assigned readings will be added or deleted or that events (guest lectures, extreme weather, etc.) may require changes to the schedule. Any changes will be announced in class or via e-mail.

MSLIS e-portfolio

All students entering the MSLIS degree program are required to complete an e-portfolio that must be approved by their advisor before they will be permitted to graduate. The e-portfolio provides students with an opportunity to showcase their best work from the courses they have taken at SILS, and an opportunity to demonstrate they have met the learning objectives of a Master of Information and Library Science.

Work completed for this course may be included in the e-portfolio to satisfy one or more of the following learning outcomes (outcomes with a primary focus in this course are **in bold**):

- 1. Research: Students carry-out and apply research.
- 2. Communication: Students demonstrate excellent communication skills and create and convey content.
- 3. Technology: Students use information technology and digital tools effectively.
- 4. User-Centered Focus: Students apply concepts related to use and users of information and user needs and perspectives.
- 5. LIS Practice: Students perform within the framework of professional practice.