cisc3650 human-computer interaction spring 2012 lecture # 1.1 introduction

topics:

- introduction to the course
- introduction to human-computer interaction
- to do

instructor:

• Prof Elizabeth Sklar, sklar@sci.brooklyn.cuny.edu, AIM screen name: agentprof

course web page:

• http://www.sci.brooklyn.cuny.edu/~sklar/cisc3650

references:

• Some slides courtesy of Prof Jeremy Cooperstock, McGill University, Québec, Canada

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course structure	• your grade = assignments 30% labs 25%
• 6 units	midterm exam 15%
I. Design Principles	final exam 30%
 II. Evaluating Interfaces III. Understanding Users IV. Devices V. Social Computing VI. Human-Robot Interaction each unit has lectures and labs the lectures will be held in 5122 N the labs will be hands-on sessions using computers in 5301 N 	 late policy: the following PENALTY applies to assignments that are submitted after the due date submitted late but less than by more than or equal to penalty 6 hours 1 day (24 hours) 10% 1 day 3 days 25% 3 days 5 days 50% 5 days 7 days** 75% *After 7 days late, I won't accept it any more.
 the assignments will be: written assignments design documents software prototypes 	
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course content • course description: - introduction to human-computer interaction (HCI) - classical and state-of-the-art approaches to HCI - design principles and theories behind HCI and HRI (human-robot interaction) - methods for evaluating interfaces - understanding users; social computing - interfaces for a range of devices (e.g., mobile devices, robots, virtual reality) • prerequisite: - (CISC 3120) or (CISC 3150) or (CISC 3110 and knowledge of Java) • requirements: - readings (provided in class — no textbook!) - USB Flash drive (for labs) attendance assignments - exams cisc3650-spring2012-sklar-lecl.1

sources about me • Human-Computer Interaction, 3rd edition. by Alan Dix, Janet Finlay, Gregory D. Abowd • undergrad: Barnard, CS major/English minor, BA 1985 and Russell Beale. Pearson/Prentice Hall (c) 2004. • grad school: Brandeis University, MA 1997, PhD 2000 • JavaScript: The Definitive Guide, 6th ed., by David Flanagan. O'Reilly Media (c) 2011. • prior industry and teaching experience: • Learning Android. by Marko Gargenta. O'Reilly Medai (c) 2011. - MIT Lincoln Laboratory • Web Usability: A user-centered design approach. by Jonathan Lazar. Pearson Education / - Monash University and University of Melbourne, Melbourne, Australia Addison Wesley (c) 2006. - Boston College, Massachusetts (not far from Fenway Park) • Designing Interactions. by Bill Moggridge. MIT Press (c) 2007. - Columbia University (uptown somewhere...) • The Design of Everyday Things. by Donald A. Norman. Basic Books (c) 2002. - CUNY Brooklyn College, since Fall 2005 • HTML5: Up and Running. By Mark Pilgrim. O'Reilly Media (c) 2010. • research areas: artificial intelligence and multi-agent systems • Designing the User Interface: Strategies for Effective Human-Computer Interaction, 5th human/multi-robot teams edition. by Ben Shneiderman and Catherine Plaisant. Pearson/Addison Wesley (c) 2010. - agent-based modeling of human behavior (e.g., in games) • Leonardo's Laptop: Human needs and the new computing technologies. by Ben - data mining and visualization Shneiderman. MIT Press (c) 2003. • more on my home page: http://www.sci.brooklyn.cuny.edu/~sklar • Designing Interfaces, 2nd edition. by Jenifer Tidwell. O'Reilly (c) 2011. cisc3650-spring2012-sklar-lecl.1 cisc3650-spring2012-sklar-lecl.1



- technology should not be hard to use
- "In order to humanize a world that uses technology as an infrastructure for education, healthcare, transportation, communication, work and other areas, we must develop these technologies in a way that serves people first." (Cooperstock)
- a cell phone should be as easy to use as a doorknob!
- a washing machine should be easy to wash clothes in!
- example: LG WM2277HW front-load stackable washing machine (from *The Design of Everyday Things*, by Donald Norman)





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now swap drawings with the person sitting next to you
do you know how to use their stroller?
do you know what the parts do?



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