

CS 315 Intro to Human Computer Interaction

Syllabus – Spring 2013

Catalog Description

Humans interact with computers through user interfaces; designing useful and effective interfaces involves many challenges for both designers and programmers. This course will cover the basics of the field of human computer interaction including the human factors of interactive software, methods to develop and assess interfaces, interaction styles and design considerations. The class will include research and design projects as well as a programming project. Prerequisite: CS 250 with a minimum grade of C or MEDA 260 with a minimum grade of C. Offered alternate years. 4 credits.

Topics

- Motivation: Why the study of how people interact with technology is vital for the development of most usable and acceptable systems
- Contexts for HCI (mobile devices, consumer devices, business applications, web, business applications, collaboration systems, games, etc.)
- Process for user-centered development: early focus on users, empirical testing, iterative design.
- Different measures for evaluation: utility, efficiency, learnability, user satisfaction.
- Models that inform human-computer interaction (HCI) design: attention, perception and recognition, movement, and cognition.
- Social issues influencing HCI design and use: culture, communication, and organizations.
- Accommodating human diversity, including universal design and accessibility and designing for multiple cultural and linguistic contexts.
- The most common interface design mistakes.
- User interface standards
- Principles of graphical user interfaces (GUIs).
- Action-object versus object-action.
- User interface events.
- Constructing a user-interface for a native system vs. the web.

Many of the above topics were copied with permission from the Computing Curricula 2008 recommendations found at: <http://www.acm.org/education/curricula/ComputerScience2008.pdf>.

Instructor Details

Professor:	Shereen Khoja
Email:	shereen@pacificu.edu
Office:	Strain 203C
Phone:	(503) 352-2008
Office Hours:	M 11:00am - 12:00pm W 1:00pm - 2:00pm F 10:30am - 11:30am or by appointment

Course Details

Course Title:	CS315 Human Computer Interaction
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Prerequisite:	CS 250 Introduction to Computer Science II with a minimum grade of C or better, or MEDA 260 with a grade of C or better
Meeting Times:	MWF 2:15pm - 3:20pm
Location:	Marsh LL15
Textbooks:	Primary: Designing the User Interface, Ben Shneiderman & Catherine Plaisant, Pearson, 5 th Edition, 2009, ISBN-10: 0321537351
	Recommended:

Course Website

<http://zeus.cs.pacificu.edu/shereen/cs315s13/>

Course Assessment

Grade Distribution:

Group project (6 deliverables)	40%
Individual assignments	15%
Research paper	10%
2 Exams	25%
Final report & presentation	10%

Grading Breakdown:

		92-100%	A	90-92%	A-
88-90%	B+	82-88%	B	80-82%	B-
78-80%	C+	72-78%	C	70-72%	C-
68-70%	D+	60-68%	D		
		0-60%	F		

Important Dates

Tentative dates for Exams:

Exam 1: Wednesday, March 13, 2013

Exam 2: Friday, April 26, 2013

Spring Break:

Saturday, March 23, 2013 through Sunday, March 31, 2013 (No Classes)

Senior Projects Day:

Wednesday, April 24, 2013 (No Classes for Arts & Sciences)

Campus Calendar:

<http://pacificu.edu/calendar/>

Date of Final Presentations:

Monday, May 13, 2013, 8:30 am – 11:00 am

Policies

- Attendance at every class is critical to your success in this course. I expect you to be on time and ready to go once it is 2:15pm and that you stay until the end of class. Any missed lecture is your responsibility to make up; just remember, if you fall behind, it will be very difficult to catch up.

2. You will be working on a semester-long group project. I will be assigning the groups. Each group is responsible for making sure that all of the members are participating. As part of the project reports, you be required to describe the effort put in by each member, both on specific tasks and as a fraction of the group's effort. Make sure you discuss this regularly, to make sure your group is in agreement about the work breakdown. If a group member is not participating, the entire group must meet with the instructor. Effective group work (which entails some amount of conflict resolution) is a key skill for success in industry. I would like you to work through conflicts if at all possible, and I will devote some class time to this topic.
3. Group assignments may not be turned in late.
4. Individual assignments can be turned in up to 24 hours late with a loss of 10%. Anything later will not be accepted.
5. This course involves a lot of writing. You will be graded on your writing quality as well as your writing content.
6. No early or late exams/finals will be given. No incompletes will be given.
7. Academic Dishonesty: Pacific University has no tolerance for academic dishonesty. It is university policy that all acts of academic dishonesty be reported to the Associate Dean. Forms of academic dishonesty include, but are not limited to, plagiarism, fabrication, cheating, tampering with grades, forging signatures, and using electronic information resources in violation of acceptable use policies. Please consult the Academic Conduct Policies in the A&S Catalog for more details.
 1. Sanctions that may be imposed for academic dishonesty are:
 1. First offense for cheating: 12 percentage points subtracted from your final course grade and a zero for the assignment or exam
 2. Second offense for cheating: `F' in the course.
8. All code in any form generated from this course becomes the intellectual property of Pacific University. You may not share this code with anyone without obtaining written permission from Pacific University.
9. You may be asked to leave the classroom if you are causing a distraction e.g. cell phone ringing, talking, etc.
10. If you have documented challenges that will impede your learning in any way, please contact our LSS office in Scott Hall (ext.2107). The Director will meet with students, review the documentation of their disabilities, and discuss the services that Pacific offers and any appropriate ADA accommodations for specific courses.
11. The Tutoring and Learning Center (TLC) is located in Scott Hall 127. The center focuses on delivering one-on-one and group tutoring services for math and science courses and writing skills in all subjects. Students should consult with the center's director for information on tutoring available for other subjects. Day and evening hours; walk-ins welcome!