**CSE 463: Introduction to Human-Computer Interaction**  
Spring 2012  
Sched. Line no. 27094  
Fri 9-950, BYENG 222

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Cognitive Science & Engineering Program  
Office: Santa Catalina 150C (Polytechnic campus)  
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Office Phone: 480.727.1589  
Office hours: T 11-1 and by appt.

**Class Website:** ASU Blackboard system

**Required Textbook:**

[Image of book cover]


**Course Description and Goals:**  
This course is designed to give you a foundational understanding of how people interact with computers and computing technology, and will provide you with a set of basic skills for evaluating and designing for this type of interaction. These are valuable skills to have, especially if you are considering post-baccalaureate work in the fields of psychology, design, computer science, or plan to work in industry with such technology. Even if you do not plan to pursue a career in such areas, this is useful information to know to improve your own interaction with technology.

**Course Structure:**  
As this is a hybrid course, the nature of this class will be slightly different from a traditional lecture class. You will be required to read the textbook and view the lectures on your own, however there will also be several exercises and exams throughout the semester that will be completed during the in-person lab time.

All materials (e.g., lectures, any assignments, etc.) for a given week will be available first thing on Monday morning of that week. The materials will not be made available any earlier than that, although you are welcome to read ahead in the book if you would like. I also STRONGLY recommend that you read the material BEFORE viewing the lectures, as they will make more sense. The entire course will be conducted using the Blackboard system. Check back frequently on the Blackboard system for new
announcements, and make sure your email address is correct in the Blackboard system. It is your responsibility to keep up with the rest of the class.

**Course Grading:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 exams (50 points each)</td>
<td>150</td>
</tr>
<tr>
<td>Lab Assignments (25 points each)</td>
<td>100</td>
</tr>
<tr>
<td>Final Presentation</td>
<td>50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>300</strong></td>
</tr>
</tbody>
</table>

**Grading Distribution: (% of points earned)**

- **A+** 97-100%
- **A** 93-96%
- **A-** 90-92%
- **B+** 86-89%
- **B** 83-85%
- **B-** 80-82%
- **C+** 77-79%
- **C** 70-76%
- **D** 60-69%
- **E** <59%

**Academic Code of Conduct:**
Pursuant to Arizona Administrative Code, Title 7, Chapter 4, Article 1, no form of academic dishonesty or misconduct will be tolerated. Punishment for such violations includes suspension and/or expulsion from ASU.

- **“Cheating”** means intentionally using or attempting to use unauthorized materials, information or study aids in any academic exercise.
- **“Plagiarism”** means intentionally or knowingly representing the words or ideas of another as one’s own in any academic exercise.

If you are caught cheating or plagiarizing (or any other violation of the above code) anytime during the course, AT A MINIMUM, you will receive a zero on the relevant assignment.

**Class Assignments:**

- **Assignments:** Four times during the semester, you will be given a homework assignment that will be due a week or two later. This assignment will be turned in via the Blackboard system, and must be neatly organized, and in the correct format. Details on each of these assignments will be given out as they are assigned, and you will have the opportunity to work on these assignments during the in person lab section. These assignments are designed to build on one another and it is very important that you complete all assignments. **Late assignments will not be graded.**

- **Exams:** There will be 3 exams in this class, which you will be asked to complete in person. Any material covered in the lectures or in the textbook is fair game.

- **Final Presentation:** Towards the end of the semester, you will be required to give a presentation on your final project to the entire class during the in person lab times.
Students with Disabilities:
Reasonable and appropriate accommodations for ASU students with disabilities will be made. Students with disabilities must be registered with the Disability Resource Center, and must notify the instructor no later than the first week of classes regarding any special needs/requirements.

Withdrawals and Incompletes
Late withdrawals and Incompletes are only given under the most extreme circumstances, and you will be required to provide documentation for any such requests. If possible, notify me immediately if you foresee a potential problem with completing the class. DO NOT WAIT UNTIL THE LAST WEEK OF CLASSES TO NOTIFY ME.

Class Schedule (subject to change):

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic and Required Readings</th>
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<tbody>
<tr>
<td>Week 1: (01/05)</td>
<td>Review Syllabus</td>
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<tr>
<td>Week 2: (01/09)</td>
<td>Introduction to Usability (Chapter 1)</td>
</tr>
<tr>
<td></td>
<td>What is usability (33%)</td>
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<td></td>
<td>Why usability test (33%)</td>
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<tr>
<td></td>
<td>Usability testing (33%)</td>
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<tr>
<td>Week 3: (01/16)</td>
<td>The Human</td>
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<td></td>
<td>Human perceptual system (50%)</td>
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<td></td>
<td>Human cognitive system (50%)</td>
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<td></td>
<td><strong>Turn in Assignment 1</strong></td>
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<tr>
<td>Week 4: (01/23)</td>
<td>Guidelines (33%), Principles (33%) &amp; Theories (33%; Chapter 2)</td>
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<tr>
<td>Week 5: (01/30)</td>
<td>Evaluating Designs (Chapter 4)</td>
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<td></td>
<td>Expert reviews (25%)</td>
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<td>Surveys (25%)</td>
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<td>In-situ testing (25%)</td>
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<td>Experiments (25%)</td>
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<tr>
<td>Week 6: (02/06)</td>
<td><strong>Exam 1</strong></td>
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<tr>
<td>Week 7: (02/13)</td>
<td>Direct Manipulation (50%) &amp; VE (50%; Chapter 5)</td>
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<td><strong>Turn in Assignment 2</strong></td>
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| Week 8: (02/20) | Menus and Dialogue boxes (Chapter 6)  
|               | Menu types (25%)  
|               | Content organization (25%)  
|               | Data entry (25%)  
|               | Menus for small devices (25%)  
| Week 9: (02/27) | Command Languages (Chapter 7)  
|               | Basic command functionality (33%)  
|               | Naming commands (33%)  
|               | Natural language processing (33%)  
| Week 10: (03/05) | **Exam 2**  
| Week 11: (03/12) | Collaboration (Chapter 9)  
|               | Collaboration goals (25%)  
|               | Asynchronous communication (25%)  
|               | Synchronous communication (25%)  
|               | Face to face augmentation (25%)  
|               | **Turn in Assignment 3**  
| Week 12: (03/19) | **Spring Break (no class)**  
| Week 13: (03/26) | User Documentation (Chapter 12)  
|               | Online documentation (25%)  
|               | Content development and maintenance (25%)  
|               | Accessibility (25%)  
|               | Tutorials and online communities (25%)  
| Week 14: (04/02) | Information search & Visualization (Chapter 13 & 14)  
|               | Searching text and databases (50%)  
|               | Advanced filtering (50%)  
| Week 15: (04/09) | **Presentations**  
|               | **Turn in Assignment 4**  
| Week 16: (04/16) | **Presentations**  
| Week 17: (04/23) | **Exam 3 (online)**  