

# Psychology D50

## Human Computer Interaction

### Course Outline – Fall 2006

**LECTURES:** Wed: 7-9 PM Room: AC 331  
**PreReq:** I will assume a background in memory and perception  
**INSTRUCTOR:** Joseph MacInnes Room: S540C

E-Mail: macinnes@utsc.utoronto.ca  
Web-page: www.cs.smu.ca/~jmac  
Office Hours: Tuesday 3-5PM

**TEXTBOOK:** Course will rely on web material, hand outs, and lecture material.

Three relevant texts:

*The Design (Psychology) of Everyday Things*, D. Norman. This is a small but excellent introduction into 'common sense' design using applied psychology.  
*Psychology Engineering*, 3<sup>rd</sup> ed. Wickens & Hollands is an excellent reference on the more advanced topics we will be covering, and will be an 'unofficial text' for the course (as well as must read if you wish to go further in this field).

*An Introduction to Human Factors Engineering*. Wickens, Lee, Liu, Becker. Will be on reserve at the library. Of interest are the first few chapters on methodology

**EVALUATION:**

Exam Midterm:	20%
Assignments (5):	25%
Project:	20%
Project Poster	10%
Final Exam	25%

(Both midterm and final will be open book/note exams)

**TOPICS** (as time permits)

- History (overview)
- The design of everyday things (Norman book)
- Human cognition (review) (Chapter 1 Wickens)
- Computer introduction/capabilities/IO
- HCI methodology
- User interface design
- Computers for psychology experiments
- Various advanced topics such as:
  - Ubiquitous computing
  - Novel interfaces
- Psychology engineering (including as many of the following as possible: Stress and Human error, Navigation, Language, decision making, automation and workload)

## IMPORTANT COMMENTS

### 1. Rules for Assignments and Quizzes:

1.1. Marked quizzes will be retained by the instructor.

1.2. each student has 3 'late-chits' at the start of the term. These can be used to submit any combination of assignments up to 3 'work-days' late. Any combination is allowable, such as one assignment 3 days late, or 3 assignments each one day late. These are designed to cover ALL POSSIBLE LATE EXCUSES.

### 2. To pass the course, you must satisfy all of the following conditions:

2.1. Accumulate at least 50 points in the assignments, exams, and presentation.

2.2. Receive 50% or above average in the exams.

2.3. Receive 40% or above in the final Exam.

3. See the academic calendar for the definitions and consequences of **plagiarism** and other academic offenses. Submissions will be checked for plagiarism including the possibility of web-sites such as 'turnitin.com'

4. **Rules for cell phones:** Cell phones must either not be brought to class or recitation, or be turned off during the class or recitation period. If you are expecting a telephone call which absolutely *must* be answered during a particular class or recitation time, don't come to that class or recitation. In other words, there is a zero tolerance for cell phones in this course.