

# CIS 4930/CAP5100: Human-Computer Interaction

Section 06CA/DEPT

Spring 2012

CSE 222, 7th period (1:55 PM - 2:45 PM)

Professor: Benjamin Lok

Office: CSE Room E544

Email: [lok@cise.ufl.edu](mailto:lok@cise.ufl.edu) (Put HCI in the subject)

Teaching Assistant: Andrew Robb ([arobb@ufl.edu](mailto:arobb@ufl.edu))

Office Hours: Wednesday 8th period, Friday 8th period, and schedule via email

TA Hours (Room 520D): Tuesday 7th period, Thursday 7th period

## Course Description:

A study of the major topics in human-computer interaction, including interface design (principles, theories), software tools, virtual environments, interactive devices, collaboration, and visualization.

***What is this course, and who is it for?***

This course is directed towards senior undergraduate students and graduate students who wish to learn the **basic concepts** and **current research** into the design, creation, and evaluation of computer interfaces. The course involves three core components:

- Lectures – core HCI topics will be presented and discussed
- Research paper reading –recent HCI research conference and journal publications will be read and discussed in class.
- Creation and Evaluation of an interface – each student will 1) create their own interface and 2) evaluate their interface

Upon completion of this course, students will be able to understand and be able to evaluate the criteria used in developing interfaces.

**Prerequisites:** COP 3530 Data Structures

## Texts:

*Recommended:* **Designing the User Interface 5<sup>th</sup> Edition**, Ben Shneiderman and Catherine Plaisant.

**Optional:** **Design of Everyday Things**, Donald Norman

### **Tentative List of Topics:**

1. *Introduction to Human-Computer Interaction*
2. *Conducting User Studies*
3. *Evaluating User Interfaces*
4. *Design guidelines, principles and theory*
5. *The Media Equation (summary of book)*
6. *Design of Everyday Things (summary of book)*
7. *Direct Manipulation and Virtual Environments*
8. *Interaction Devices*
9. *Command and Natural Languages*

### **Grading:**

- 10% Project #1 (user study)
- 20% Project #2 (create new interface)
- 20% Project #3 (record, pilot)
- 25% Project #4 (Evaluate new interface)
- 10% midterm paper
- 15% quizzes/assignments/class participation
- NO FINAL EXAM

100-92 A, 91-90 A-

89-88 B+, 87-82 B, 81-80 B-

79-78 C+, 78-72 C, 71-70 C-

69-68 D+, 68-62 D, 61-60 D-

59-0 E

A C- will not be a qualifying grade for critical tracking courses. In order to graduate, students must have an overall GPA and an upper-division GPA of 2.0 or better (C or better). Note: a C- average is equivalent to a GPA of 1.67, and therefore, it does not satisfy this graduation requirement. For more information on grades and grading policies, please visit: <http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>

We will be using the e-learning course management system. To post grades and to communicate with the class members.

### **Workload:**

*Weekly:* class lectures, readings outside of class, in-class quizzes on readings

*Semester:*

**January:** students will conduct a study that compares simple interfaces for a web-based task.

**February - March:** students will identify a task that would be enhanced through an improved interface. Students will identify a client for this interface. Students will create a new interface (involving a combination of coding, creation, etc.)

**March - April:** students will evaluate the new interface

The course requires an average to above average time commitment.

### **Programming Languages**

You can use any development environment and programming language.

### **Programming Requirements**

Programming at a Data Structures level is required

**Honor Code & Collaboration:**

High level questions, syntax topics, and algorithms can be discussed. Not allowed in this course include the following: 1) plagiarism (misrepresenting others ideas as your own, can be fixed with simple citation), 2) copying code, and 3) work offensive to others.

**Honesty Policy** – All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a UF student and to be honest in all work submitted and exams taken in this course and all others.

**Accommodation for Students with Disabilities** – Students requesting classroom accommodation must first register with the Dean of Students Office. That office will provide the student with documentation that he/she must provide to the course instructor when requesting accommodation.

**UF Counseling Services** – Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:

- University Counseling Center, 301 Peabody Hall, 392-1575, Personal and Career Counseling.
- SHCC mental Health, Student Health Care Center, 392-1171, Personal and Counseling.
- Center for Sexual Assault/Abuse Recovery and Education (CARE), Student Health Care Center, 392-1161, sexual assault counseling.
- Career Resource Center, Reitz Union, 392-1601, career development assistance and counseling.

**Software Use** – All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

**Assignments:** A late penalty of -10% for each day late will be assessed. After **3** days, you will receive a 0. Only under EXTREME circumstances will tests be given other than the time listed on the syllabus.

**Requests for extreme circumstances must be requested in writing BEFORE the due date**

**Attendance:** Attendance is not required and will not be graded. If you are sick, please contact me, and we will work out a way for you to catch up.

**Incompletes:** Incompletes will be granted for only the most extreme circumstances, e.g. medical or family reasons. To be considered for an incomplete, the student \*must\* 1) let the professor know at in advance that they are seeking an incomplete, and 2) provide documentation to support the request.

**Course Webpage:** <http://www.cise.ufl.edu/~lok/teaching/hci-s12>

**Miscellany** – To reduce distraction to your fellow classmates, please:

1. turn off all cell phone ringers
2. no open laptops
3. do not read the newspaper