CIS 4930/5100: Human-Computer Interaction

Section 6344/2614
Fall 2010
CSE 222, MWF 4th period (10:40-11:30)

Professor: Benjamin Lok
Office: CSE Room E544
lok@cise.ufl.edu (Put HCI in the subject)

TA: Diego Rivera-Gutierrez (djrg@cise.ufl.edu)

Office Hours:
- **Monday 5th period**
- **Wednesday 5th period**
- **By appointment (email)**

TA Hours:
- **T**uesday ?th period
- Thursday ?th 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

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

Tentative List of Topics:

1. *Interface Basics*
2. *Design guidelines, principles and theory*
3. *Evaluating Interface Designs*
4. *Interaction Devices*
5. *Virtual Environments, and 3D Interaction*
6. *Command and Natural Languages*

Grading:

- 15% Project #1 (user study)
- 20% Project #2 (create new interface)
- 25% Project #3 (evaluate new interface)
- 20% midterm paper
- 20% quizzes/assignments/class participation

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

NO FINAL EXAM!!

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:
August/September: students will conduct a study that compares simple interfaces for a web-based task.
October: students will identify a task that would be enhanced through an improved interface. Students will identify a client for this interface.
November: Students will create a new interface (involving a combination of coding, creation, etc.)
November-December: students will evaluate the new interface

The course requires an average to above average time commitment.

Equipment and Facilities:
You can use any development environment and programming language.

Honor Code & Collaboration:

Working together is encouraged, but I urge all students to please use discretion. 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.

Students have the responsibility to know and follow the requirements of the UF CODE OF STUDENT ACADEMIC INTEGRITY. **This code forbids cheating, fabrication, or falsification of information, multiple submission of academic work, plagiarism, abuse of academic materials, and complicity in academic dishonesty.** The code will be strictly enforced and is binding on the students. Grade and academic evaluation in this course includes a judgment that the student's work is free from academic dishonesty of any type; and grades of this course, therefore, should be and will be adversely affected by academic dishonesty. Students who violate the code can be expelled from UF. The penalty for a first offense is zero credit on the work involving dishonesty and further substantial reduction of the course grade. In almost all the cases, the course grade is reduced to "F". Copies of the code may be obtained from the Dean of Students Office. Students are expected to report cases of academic dishonesty to the course instructor immediately.

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

Tardiness: Please be considerate of your instructor and fellow students by being on time to class.

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-f10

Students with Disabilities – Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation."

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

Multiple and/or willful disregard will lead to an escalating penalties from emails to verbal chats to a deduction in the class participation grade will be assessed. For those who require counseling services, please contact the Student Mental Health Center (2-1171).