

Course	CSI 3500, Human Computer Interaction Section CSI 15104 Oakland University, School of Engineering and Computer Science
Credits	4 credits
Semester	Winter 2018
Lecture	Class – M/W/F, 12:00- 1:07 PM, 372 Mathematics and Science Center
Lecturer	Laura Dinsmoor Contact Information - Email: <a href="mailto:dinsmoor@oakland.edu">dinsmoor@oakland.edu</a> Office: 518 Engineering Center Office Hours: by appointment
Required Book	Interaction Design: Beyond Human-Computer Interaction, 4th Edition, Rogers, Sharp, Preece, Wiley, E-Text: ISBN : 978-1-119-08879-0 <b>or</b> Paperback: ISBN : 978-1-119-02075-2
Course Websites	Moodle: <a href="http://moodle.oakland.edu">moodle.oakland.edu</a>

### **Course Description:**

Surveys various components, techniques of Human Computer Interaction (HCI). Topics include the basic perceptual, cognitive and performance capabilities of people and external factors that affect these capabilities, tools, techniques for understanding, predicting, evaluating the interactions of people with technology. Systematic processes for designing, evaluating and revising interactive systems are studied. (Formerly CIT 350)

**Prerequisite(s):** major standing in IT/CS.

### **Course Objectives:**

- Analyze human perceptual and cognitive capabilities to be considered while designing user interfaces (j).
- Assess various interactions modalities including its uses and limitations (j).
- Design human centric user interfaces (j, m).
- Create and perform usability analysis (j).
- Use tools for designing user interfaces (j).

### **Program Outcomes:**

j) An ability to use and apply current technical concepts and practices in the core information technologies of human computer interaction, information management, programming, networking, and web systems and technologies.

m) An understanding of best practices and standards and their application.

## Course Delivery:

While this is not specifically an online course, some portions of the course utilize online programs. You will need to use the computer lab or (if you have one) your own computer, outside of class time to complete assignments and possibly watch videos.

Moodle is the tool I use for our class web page. I will be posting important notes to the class, exam dates, and assignments on our web page. It is your responsibility to read it throughout the week. Slides are provided on Moodle if you'd like to print them out to take notes on during class.

All due dates and times will be based on the time in Rochester, Michigan. Please keep this in mind if you are submitting assignments from another time zone.

*You will be expected to read each chapter we are covering in this class.*

## Attendance:

Attendance is mandatory because this course will involve group projects and in class participation.

## Grading:

The following scale will be used for determining final grades.

Grade = Score/16 - 2

<u>Grade Weighting</u>	<u>Weighting</u>
Class Participation	15%
Group Projects & Homework	45%
Exams	40%

## Exams:

There will be two exams this semester. Exams will be multiple choice. You must bring in an OU picture ID and a pencil. I will provide the Scantron. You may bring in a double sided 8" x 11.5" sheet of paper, or two single sided paper of the same size.

Make up exams are not given for unexcused absences. Excused absences require documentation from a hospital, doctor, police report, or similar. This documentation must be submitted within one class periods of the exam, unless your reason for being out prevents you from coming into school in which case someone needs to notify me within three days.

## EC labs and computers:

If you would like to use the PC's in the Engineering Center, you need to have an account to have an access to those computers; your Sail ID will not work to log on to those computers. To request a student account in order to use the EC lab computers, use this link:

<https://www.oakland.edu/secs/student-resources/technology-offices/>

## Academic Conduct:

Cheating is a serious academic crime. Oakland University policy **requires** that all suspected instances of cheating be reported to the Academic Conduct Committee for adjudication. It is assumed that ALL WORK THROUGHOUT THE TERM IS YOUR OWN! Discussion of homework is permitted but copying of assignments or parts of assignments is not. Handing in a homework assignment that was essentially copied (fully or in part) from someone else does constitute cheating. All cases of suspected cheating will be turned into the Academic Conduct Committee for review.

In the case a student is found responsible for academic misconduct, the student may receive a zero for the course or the assignment.

## Inform your instructor of any accommodations needed:

Please email or see the instructor by January 17<sup>th</sup> if you have a documented disability and verification document from the Student Disability Services.

[www.oakland.edu/dss](http://www.oakland.edu/dss)

## Class Schedule:

Please refer to the following for official add/drop dates, holidays, etc:

<https://oakland.edu/registrar/important-dates/>

- Adjustments to the schedule will be made as needed and updates will be discussed in class and via Moodle.
- OU will be closed Monday January 15<sup>th</sup>, and February 19-23rd.

Week of	Tentative Topics
1/3/2017	Course Introduction, What is Interaction Design
1/8/2017	What is Interaction Design
1/15/2017	Understanding and Conceptualizing Interaction
1/22/2017	Cognitive Aspects
1/29/2017	The Process of Interaction Design, Data Gathering
2/5/2017	Data Analysis, Interpretation and Presentation
2/12/2017	Establishing Requirements, Exam 1
2/19/2017	Winter Break
2/26/2017	Design, Prototyping and Construction
3/5/2017	Interfaces
3/12/2017	Social Interaction
3/19/2017	Emotional Interaction
3/26/2017	Evaluation Studies: From Controlled to Natural Settings, Exam 2
4/2/2017	Evaluation: Inspections, Analytics, and Models
4/9/2017	Presentations (Friday)
4/16/2017	Presentations (Monday, last day of class)