

# CMPS 5443 Human Computer Interaction

## Spring 2023 Course Syllabus

### Instructor: Dr Catherine Stringfellow

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**Zoom:** Address available in D2L

**Office Hours:** MW 2:30-3:30pm, WF 10-11am, TR 2-3:30pm and by appointment

### Course Description:

This course investigates theory and practice in Human-Computer Interaction. It addresses the human, machine, algorithmic, social, aesthetic and economic constraints in designing interactive computer systems. Students will study the impact of human perception and cognition on user interface design and learn to use tools for building graphical user interfaces (GUIs). In addition, each student will design and implement a user interface.

**Course Pre-requisites:** CMPS 1063 or equivalent, or permission of instructor

**Required Textbook:** *Designing the User Interface: Strategies for Effective Human-Computer Interaction*, 6/E by Shneiderman, Plaisant, Cohen & Jacobs

## A. LEARNING OUTCOMES

### Intended Educational Outcomes are:

- Students will be able to read and understand journal papers in the field of HCI
- Students will be able to design, implement and evaluate multimodal user interfaces
- Students will be aware of current developments in HCI

## B. MAJOR TOPICS

### Major topics to be studied include:

- Concepts of *universal design*
- Human perception and cognition
- Assessing specific needs based on abilities of users and how to accommodate those needs
- Principles of user interface design
- Modeling users and tasks
- Designing and implementing graphical user interfaces (GUIs)
- Evaluating user interfaces
- Emerging interface technologies

## C. INSTRUCTIONAL METHODS AND TECHNIQUES

### Instructional methods/techniques to be used will include:

- PowerPoints, reading assignments, audio and video files available on D2L or online (via hyperlinks)
- Worksheets, homework assignments & timed quizzes over the readings
- Three major projects – to be described in more detail in the assignment guide
- Class discussions
- Three exams

## D. EVALUATION: Criteria for Success

Course Assignments	% of grade
Two Exams and a Final	30%
Online Discussions/Homework/Quizzes	15%
Web Usability Evaluation/Presentation Slides	15%
Journal papers' summaries & Themes assignment Paper/Presentation assignment	20%
Graphical User Interface Project	20%

## E. Course Policies

### Attendance Policy

Although student attendance is not calculated into the grade, attendance will be taken each day to track students. If a student is absent 3 consecutive classes without notifying the instructor, a report will be submitted to the Dean of Graduate Students and the student may be dropped from the class.

### Behavior in the classroom

Students are to assist in maintaining a classroom environment that is conducive to learning. This means that the presence of electronic devices other than your calculator are not to be seen, heard, or implied, ever. Questions are encouraged and discussion is acceptable, provided it is pertinent and does not distract from the lesson.

### Late Work

Late work may be submitted within 48 hours of due date/time, but there will be a 10% penalty assessed.

### Make Up Work/Tests

Students need a valid university excuse to make up work or tests. Refer to [College Policies and Procedures Manual](#).

### Computer Requirements

Taking this class requires you to have access to a computer (with Internet access) to complete and upload your assignments. It is your responsibility to have (or have access to) a working computer in this class. **Assignments are due by the due date posted, and personal computer technical difficulties will not be considered reason for the instructor to allow students extra time to submit assignments, tests, or discussion postings.** Online class material can be accessed from any computer in the world which is connected to the internet. Computers are available on campus in various areas of the buildings, as well as the Academic Success Center. Contact your instructor immediately upon having computer trouble. If you have technical difficulties in the course, there is also a student helpdesk available to you. The college cannot work directly on student computers due to both liability and resource limitations, however they are able to help you get connected to our online services. For help, log into [D2L](#).

### Policy on Testing Process

The Department of Computer Science has adopted the following policy related to testing.

- All bags, purses, electronics (turned off), books, etc. will be placed in the front of the room during exams, or in an area designated by the instructor.
- Unless otherwise announced by the instructor, nothing is allowed on the desk but pen/pencil/eraser and test papers.
- A student who leaves the room during an exam must turn in the test and will not be allowed to return.

### Academic Misconduct Policy & Procedures

Academic Dishonesty : Cheating, collusion, and plagiarism (the act of using source material of other persons or generators, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given). The Department of Computer Science had adopted the following policy related to cheating (academic misconduct). The policy will be applied to all instances of cheating on assignments and exams as determined by the instructor of the course. (See below for link to MSU definitions.)

- 1st instance of cheating in a course: The student will be assigned a non-replaceable grade of zero for the assignment, project or exam. The student will receive a one letter grade reduction in course.

- 2nd instance of cheating in a course: The student will receive a grade of F in course & immediately be removed from course.
- All instances of cheating will be reported according to MSU Policy

Students must use IEEE Format for references and citations for presentations/papers submitted.

*Note: Showing your work to another student is collusion – it is academic misconduct.*

See Also: [MSU Student Handbook](#): Appendix E: Academic Misconduct Policy & Procedures  
[https://msutexas.edu/student-life/\\_assets/files/handbook.pdf](https://msutexas.edu/student-life/_assets/files/handbook.pdf)

## **F. University Policies and Procedures**

### **Student with Disabilities**

Any student who, because of a disability, may require special arrangements in order to meet the course requirements should contact the instructor as soon as possible. Students should present appropriate verification from Disability Support Office during the instructor's office hours. Please note instructors are not allowed to provide classroom accommodations to a student until appropriate verification has been provided. For additional information, contact the Disability Support Office in Clark Student Center 168 - Phone: (940) 397-4140

### **Desire-to-Learn (D2L)**

Extensive use of the MSU D2L program is a part of this course. Each student is expected to be familiar with this program as it provides a primary source of communication regarding assignments, examination materials, and general course information. You can log into [D2L](#) through the MSU Homepage. If you experience difficulties, please contact the technicians listed for the program or contact your instructor.

### **Policy on Concealed Handguns on Campus**

Senate Bill 11 passed by the 84th Texas Legislature allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Areas excluded from concealed carry are appropriately marked, in accordance with state law. For more information regarding campus carry, please refer to the University's webpage on [Campus Carry](#) at <https://msutexas.edu/police/policies-laws/index.php>. If you have questions or concerns, please contact Interim MSU Chief of Police at [steven.callarman@msutexas.edu](mailto:steven.callarman@msutexas.edu)

### **Recording of Class Lectures**

Permission must be requested in writing and obtained from the instructor before recording of class lectures. If permission is granted, the recording may only be used by the student making the recording. Recordings (or any class materials) may NOT be posted on any internet source without written permission of the instructor. Failure to adhere to the policy may result in removal from the course with a grade of F or other appropriate punishment.

Refer to [MSU Student Handbook](#), [https://msutexas.edu/student-life/\\_assets/files/handbook.pdf](https://msutexas.edu/student-life/_assets/files/handbook.pdf) for all other policies.

## **G. Important Dates**

See [https://msutexas.edu/registrar/\\_assets/files/pdfs/spring23front.pdf](https://msutexas.edu/registrar/_assets/files/pdfs/spring23front.pdf) for [Important Dates](#).