Table of Contents

CS4393 User Interfaces/CS5153 User Int & Usability

Fall 2022

COURSE INFORMATION

Course Description:

(CS4393) Study of advanced user interface issues. User interface design, human factors, usability, GUI programming models, and the psychological aspects of human-computer interaction. Prerequisite: CS 3443

(CS5153) This course focuses on the development of high-quality user interfaces. The course reviews the basics of user interface development, tools, and use-case driven design techniques; examines the elements of good design and usability, metrics for usability, and procedures for user testing. Prerequisite: CS 4773

Credit hours: 3
Course Modality: Online. Students will attend live online sessions via Zoom.
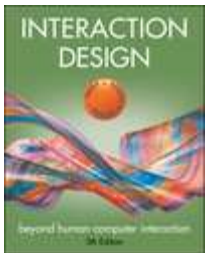
LEARNING GOALS

At the end of the course students will be able to:

- Summarize core HCI, human factors, and UX philosophies, theories, and processes
- Identify key human factors and variables that impact the development of user interfaces
- Evaluate existing user interfaces using scientific and industrial standards and processes
- Make use of data collection and data analysis techniques
- Discover user requirements from a data set
- Build low and high-fidelity prototypes of interfaces
- Create a user interface as a part of a design team

COURSE MATERIALS

Required Textbook

Interaction design: Beyond human-computer interaction, 5th Ed.
Sharp, Preece, and Rogers
ISBN: 978-1119547259

Students may obtain the required textbook in e-book or hardcopy format from any vendor including the UTSA bookstore, Cengage, Amazon, etc. **The current edition must be used because the course uses exercises and labs from the current edition.**

Required Materials/Equipment/Software
- A computer with Internet access (preferably a laptop)
- A webcam (for online students only)
- A variety of free software and tools available to UTSA students (see Bb)

ACTIVITIES AND GRADING

Assessments and Activities:

Students in this course will complete a variety of labs, projects, exams, and quizzes. For fullest credit, students should exceed minimum requirements and expectations. Full credit and/or an "A" grade is excellent work that is outstanding and noteworthy. To earn an "A" in this course, one must go above and beyond minimal requirements. Work should be complete, look professional and adhere to any course/university/industry style and format guidelines, and should exhibit an excellent understanding of course concepts and integration of theories into practical labs and deliverables.

Undergraduates:

Assessments	Weights
Labs	40%
Discussion Boards	20%
Team Project	40%
Total:	**100%**

Graduate Students: Graduate students enrolled in 5153 will complete an additional research paper and engage in a multiple online discussion boards that require analysis beyond the undergraduate level. Some labs may have advanced tasks directed at graduate students. These will be clearly noted in Blackboard.

Assessments	Weights
Labs	40%
Discussion Boards	10%
Research Paper	10%
Team Project	40%
Total:	**100%**

Grade Distribution and Letter Grade:
At the end of the semester grades will be assigned based on the numerical ranges detailed in this table.

Letter	Range	Meaning
A+	97.00-100.0	Outstanding and Noteworthy
A	94.00-96.99	Outstanding
A-	90.00-93.99	Excellent
B+	87.00-89.99	Well Above Average
B	84.00-86.99	Above Average
B-	80.00-83.99	Slightly Above Average
C+	77.00-79.99	Average
C	74.00-76.99	Slightly Below Average
C-	70.00-73.99	Below Average
D+	67.00-69.99	Well Below Average but Passing*
D	64.00-66.99	Well Below Average but Passing*
D-	60.00-63.99	Well Below Average but Passing*
F	<60.00	Failure

*See credit/no-credit grading policy in catalog.

Late work policy: In order to facilitate the timely return of grades and feedback on assignments, limits will be placed on late work. Exams must be completed during the scheduled class period. If you have a university-allowable justification or medical emergency that requires rescheduling your exam or submitting late work, please communicate with the professor via email prior to the event/religious holiday and/or within 72 hours of the medical emergency based on physician allowances. A reasonable attempt will be made to work with the student. Final discretion will be left with the professor. *For labs, a no-questions asked late work policy will apply. Students may submit labs up to 48 hours late with an automatic 20% loss in points for that lab.*

Extra credit policy: This course will include a single extra credit assignment that will be announced in November. Due dates, requirements, weight, and other pertinent facts will be release in Blackboard. Other than this assignment, no extra credit will be provided.

ESSENTIAL STUDENT INFORMATION

- **Important:** Bookmark and visit the [Common Syllabus Information webpage](#) to find important and valuable resources about counseling services, transitory/minor medical issues, supplemental instruction, tutoring services, academic success coaching, sexual harassment and sexual misconduct, campus safety and emergency preparedness, inclusivity statement, and the Roadrunner Creed.

- For technical requirements, support, and academic resources, visit the [Student Support Gateway](#), where you can find all your tech and academic support resources in one place.
- Follow [Online Learning Netiquette](#) standards for your online communication activities. Please be mindful of the communication tools available in your course and use them for learning purposes. Class discussions take place in a respectful and safe environment, whether online or in person. UTSA encourages everyone to openly share their ideas and opinions without penalty or judgment, but learning should always be based on facts and research. It is possible to disagree without being disagreeable.
- UTSA provides reasonable accommodations to students via the [Student Disability Services](#). For more details on eligibility, policies, and requirements, please visit www.utsa.edu/disability or call (210) 458-4157.
- **UTSA Wellbeing Resources:** your wellbeing is a priority for us. UTSA is proud to partner with [Wellness 360](#) and MySSP to provide students with access to quality health and mental health care. Visit the [UTSA Students Wellbeing Resources](#) to explore the services available.

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Dr. Timothy Richards

Department and College: Department of Computer Science in the College of Sciences

Office Location: NPB 3.202

On-campus Office Hours: During fall 2022 I will hold on-campus office hours at these times in NPB 3.202. While these are drop-in hours, I <u>highly</u> recommend sending me an email the day prior to your visit so that I can reserve a time slot for you.

Tuesdays	2:30-3:00PM & 7:15-8:00PM
Thursdays	2:30-3:30PM & 7:15-8:00PM

Virtual Office Hours: Via Zoom by appointment. Send me an email and we can setup a Zoom meeting to talk.

Email Address: timothy.richards@utsa.edu

COMMUNICATION PLAN

Please feel free to reach out to me via email with questions.

- You may email me at timothy.richards@utsa.edu. You may also use the "Email the Prof" link in Blackboard.

- Please place the course number in your subject line so that I can prioritize and respond in a timely manner.

- Our course number is: **CS4393-002 (undergraduate) / CS5153-002 (graduate)**

- Every effort will be made to respond to emails within 24-48 hours on weekdays (excluding holidays or dates that the university is closed). If you do not hear back within 48 hours, please resend your email.
- Students must use their UTSA email for communicating with the professor and put the course number in email subject line.

COURSE SCHEDULE

The course schedule is available in Blackboard. Click on the "Syllabus and Schedule" navigation link in the course to view it. For a list of important university-wide dates, review One Stop's academic calendar.

COURSE MANAGEMENT AND POLICIES

UTSA Inclusivity Statement: *The University of Texas at San Antonio, a Hispanic Serving Institution situated in a global city that has been a crossroads of peoples and cultures for centuries, values diversity and inclusion in all aspects of university life. As an institution expressly founded to advance the education of Mexican Americans and other underserved communities, our university is committed to ending generations of discrimination and inequity. UTSA, a premier public research university, fosters academic excellence through a community of dialogue, discovery, and innovation that embraces the uniqueness of each voice.*

For students in online classes:
- Students should attend all live online Zoom class sessions.
- Students should attend live classes dressed and groomed in an environment free from distractions.
- Students must activate their webcam during all live sessions.
- When not speaking, please mute your microphone.
- Some sessions will be lecture, some will be lab, and some will be team-project oriented. Announcements will be posted in Blackboard to keep you updated regarding activities for each scheduled class session.

Instructor-Initiated Drops
This course DOES NOT use instructor-initiated drops for students who exceed the absence and/or missed assignment limit. It is the student's responsibility to drop the course if they no longer wish to be enrolled. **Students are advised to speak with the professor, financial aid, and their advisor prior to dropping the course.** Please consult the Dropping Courses webpage for further details on the process and appeals.

Student Code of Conduct and Scholastic Dishonesty
The Student Code of Conduct is Section B of the Appendices in the Student Information Bulletin. Scholastic Dishonesty is listed in the Student Code of Conduct (Sec. B of the Appendices) under Sec. 203.

Copyright and Fair Use
It is important to understand the issue of intellectual property rights. You may not use the images or thoughts of others for profit or gain without their written permission. The UTSA library has a Copyright Laws and Public Performance Rights (PPR) page.

Students with Disabilities
The University of Texas at San Antonio, in compliance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act, provides "reasonable accommodations" to students with disabilities. Only those students who have officially registered with Student Disability Services and requested accommodations for this course will be eligible for disability accommodations. Instructors at UTSA must be provided official notification of accommodation through Student Disability Services. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.utsa.edu/disability or by calling Student Disability Services at (210) 458-4157. Accommodations are not retroactive.

Family Educational Rights and Privacy Act (FERPA)
FERPA grants students the right to control certain disclosures of their educational records. For a full explanation of your rights and to grant access to FERPA educational records, go to Student Catalog Annual FERPA Letter and One Stop Enrollment – FERPA Proxy Access. Without your consent or authorization of proxy access, UTSA may release Directory Information, such as but not limited to your name, email, phone, place of birth, and photograph, unless you have opted out of the release of Directory Information. To opt out, go to Restrict Directory Information Form. ***Mandatory Reporting of Sexual Misconduct and Reporting of Health and Safety Information***: If a student discloses an incident of sexual misconduct to any UTSA employee (other than to a designated confidential employee such as mental health counselor or PEACE advocate, a UTSA police officer using a pseudonym form or at a public awareness event), that information is not confidential, and the UTSA employee must report all known information to the UTSA Office of Equal Opportunity Services. Employees may also report any concerns about the health and safety of students or others to other school officials and/or law enforcement. For a complete list of exceptions to FERPA, please see Student Catalog Annual FERPA Letter and HOP 5.01.

Video and audio recording
As the instructor of this course, I may record meetings and lessons. You are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Recordings may not be published, reproduced, or shared with those not in the class. If the instructor or a UTSA office plans any other uses for the recordings, consent of the students identifiable in the recordings is required before such use unless an exception is allowed by law. For more information on your privacy and class recordings, review Student Privacy (FERPA) in Virtual Classrooms and Other Educational Recordings and the Guide to Secure Video Conferencing Tools.

Note: The syllabus is subject to change at the instructor's discretion. Any changes/corrections to the course materials, assignment dates, or other updates will be communicated to the students ahead of time. You are responsible for checking Blackboard for corrections or updates to the syllabus.