

Course Syllabus

Course Information

Course Number/Section	CS 6326.001
Course Title	Human-Computer Interaction
Term	Fall 2024
Days & Times	Tue & Thu 11:30 AM – 12:45 PM
Location	ECSS 2.412
Course Modality	Traditional

Professor Information

Instructor	Rawan Alghofaili
Office Phone	(972) 883-4209
Email Address	rawan@utdallas.edu
Office Location	ECSS 4.704
Office Hours	Tue 12:45 PM – 1:45 PM

Teaching Assistant Information

Teaching Assistant	TBA
Email Address	TBA
Office Location	TBA
Office Hours	TBA

Course Modality and Expectations

Instructional Mode	Traditional (In-Person)
Course Platform	The course will be taught face-to-face. Instructor and students meet according to the schedule.
Class Attendance	You will attend every class synchronously unless you have a valid reason, such as medical issues. Valid proof is required.

Course Pre-requisites, Co-requisites, and/or Other Restrictions

CS 5343 Algorithm Analysis and Data Structures

Course Description

Theory and practice of human-computer interaction (HCI). Provides an in-depth exploration of human-computer interaction, focusing on principles and research methods in human-computer interaction (HCI). The course consists of three modules: (1) *seminar*, which reviews major research topics in HCI through a set of readings, class presentations, and discussions; (2) *methods*, which covers qualitative and quantitative human-subjects research through lectures, tutorials, and hands-on activities; and (3) *project*, where students complete a semester-long project, usually involving empirical research, that culminates in the writing of a short paper.

Student Learning Objectives/Outcomes

- Ability to understand the design thinking process, research for design, and research through design.
- Ability to gain familiarity with seminal research across various topics in human-computer interaction.
- Ability to define research questions, construct hypotheses, map out and identify gaps in the

- research literature, and situate research questions and hypotheses in existing knowledge.
- Ability to determine the research approach that best fits a research question, identify variables of interest for empirical investigation, and design qualitative, quantitative, and hybrid studies.
- Ability to determine appropriate objective, behavioral, physiological, subjective, and composite measures for empirical investigation.
- Ability to design survey questions, construct scales, and assess reliability and validity.
- Ability to analyze qualitative and quantitative data using grounded theory and statistical methods.
- Ability to carry out a project to investigate an original research question in human-computer interaction.
- Ability to write a research artifact to report on system design and analysis.

Required Textbooks and Materials

The instructional content for the *seminar* module will include individual research articles that will be posted by the instructor on eLearning. The *methods* module will mainly use [*Research Methods in Human-Computer Interaction, Second Edition, by Jonathan Lazar, Jinjuan Heidi Feng, Harry Hochheiser, Morgan Kaufmann \(2017\)*](#). Selected research articles and readings will be posted by the instructor in eLearnign for the *methods* module as well. Software requirements and instructions for hands-on activities will be provided in their respective handouts. All other materials will be provided by the instructor in eLearning.

- Research Methods in Human-Computer Interaction by Jonathan Lazar, Jinjuan Feng, Harry Hochheiser. 2017 (2nd Edition)

Supplementary Readings:

1. New Theoretical Approaches for Human-Computer Interaction. Yvonne Rogers. Ann. Rev. Info. Sci. Tech., 38: 87-143. 2004
2. Methodology matters: Doing research in the behavioral and social sciences. Joseph E. McGrath. Readings in human-computer interaction. Morgan Kaufmann, 1995. 152-169.
3. Interaction Design: Beyond Human-Computer Interaction by Helen Sharp, Jennifer Preece, Yvonne Rogers (5th Edition)
4. Readings in Human-Computer Interaction: Toward the Year 2000 by Ronald M. Baecker, Jonathan Grudin, William A.S. Buxton, Saul Greenberg. 1995 (2nd Edition)

Textbooks and some other bookstore materials can be ordered online or purchased at the [UT Dallas Bookstore](#).

In addition to a confident level of computer and Internet literacy, certain minimum technical requirements must be met to enable a successful learning experience. Please review the important technical requirements on the [Getting Started with eLearning](#) webpage.

Grading Policy

Credit Distribution

Assessments	%
Method: Hands-on activities	10
Seminar: Presentation	20
S1: Peer Evaluation Completion	5
S2: Presentation Graded by Peers	15
Project:	65
P1: Topic Selection	5
P2: Literature Review	10
P3: Prototype	10
P4: Pilot Study	10
P5: Analysis	10
P6: Paper Manuscript	10
P7: Final Presentation	10
General: attendance, classroom participation	5

Grading Scale

- A 94 or above
- A- 90-93
- B+ 87-89
- B 84-86
- B- 80-83
- C+ 77-79
- C 70-76
- F 70 or below

Course Policies

- The project and paper presentation will be team-based. Some of the hands-on activities will also be team-based.

- eLearning is the official information portal for this course. Course announcements, lecture slides, assignments, project, and grades will be communicated via eLearning.
- Students are expected to attend class, arrive on time, participate in hands-on activities, and offer comments on readings and presentations.
- Students are also expected to offer feedback on and suggestions to improve their classmates' work.
- Students will use PeerScholar to evaluate their classmates' seminars. You will be anonymously assigned a number of seminars to evaluate on PeerScholar. You will receive no points for *S1* if you do not attend or evaluate one or more of the seminars assigned to you.
- Your *S2* grade will be assigned using your classmates' feedback on your seminar using PeerScholar.
- Final course grade will be posted in Galaxy by the Records Office.

Class Attendance

- Students should attend every class. If an extenuating circumstance arises that makes attending a class difficult, inform the TA immediately via email.
- If you decide to stop attending class, be sure to drop or withdraw from the course. Otherwise, you risk receiving an 'F' or 'NF' for the course.

Late Work Policy

- Deliverables that are not submitted by the due date will lose 20% of the total grade for that deliverable for each day that the assignment is late.
- Each project group will have one grace day for project deliverables across the semester (cannot be used for P6, P7; i.e., cannot be used for the final paper submission or presentation).

Regrade Policy

- For project grading, you have a window of 7 days (from when we return your assignment) to ask for a regrade. We will not consider any regrade requests outside this window. Regrade requests should be emailed to the TA; regrade requests will not be considered unless they contain a clear explanation on why a regrade should be issued. The TA will respond to your regrade request within 72 hours of receiving it.

Tentative Schedule (subject to change)

Week	Date	Topic	Deadlines
1	8/20, 8/22	Course Introduction, Introduction to HCI Methods I: User-Centered Design	
2	8/27, 8/29	Introduction to HCI Methods II: R&D (<i>Chapter 1</i>) Research Theories in HCI (<i>Supplementary 1</i>)	P1: Topic Selection (9/2) Presentation: Team and Paper Selection (9/2)
3	9/3, 9/5	Methodological Choices (<i>Supplementary 2</i>) Experimental Research	
4	9/10, 9/12	Seminar Experimental Design I (<i>Chapter 3</i>)	P2: Literature Review (9/13)
5	9/17, 9/19	Seminar Experimental Design II (<i>Chapter 3</i>)	

6	9/24, 9/26	Seminar Measurement I	
7	10/1, 10/3	Seminar Measurement II	
8	10/8, 10/10	Seminar Measurement III	P3: Prototype (10/11)
9	10/15, 10/17	Seminar Statistics I	
10	10/22, 10/24	Seminar Statistics II	P4: Pilot Study (10/25)
11	10/29, 10/31	Seminar Statistics III	
12	11/5, 11/7	Seminar Qualitative Data Analysis	P5: Analysis (11/8)
13	11/12, 11/14	Seminar Seminar	
14	11/19, 11/21	Seminar Seminar	
15	11/26, 11/28	Fall break (no classes)	
16	12/3, 12/5	P7: Final Presentation	P6: Paper Manuscript(12/6)

Student Conduct & Discipline

The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, *A to Z Guide*, which is provided to all registered students each academic year.

The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the *Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3*, and in Title V, Rules on Student Services and Activities of the university's *Handbook of Operating Procedures*. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

Academic Integrity

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.

Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.

Email Use

The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.

Withdrawal from Class

The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.

Student Grievance Procedures

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's *Handbook of Operating Procedures*.

In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the dean will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.

Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.

Incomplete Grade Policy

As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of **F**.

Disability Services

The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.

The contact information for the Office of Disability Services is:
The University of Texas at Dallas, SU 22
PO Box 830688
Richardson, Texas 75083-0688
(972) 883-2098 (voice or TTY)

Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.

It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.

Religious Holy Days

The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.

The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.

If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.

Off-Campus Instruction and Course Activities

Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations

may be found at the website address given below. Additional information is available from the office of the school dean. (http://www.utdallas.edu/Business_Affairs/Travel_Risk_Activities.htm)

UT Dallas Syllabus Policies and Procedures

Please visit <http://go.utdalls.edu/syllabus-policies> for other policies

These descriptions and timelines are subject to change at the discretion of the Professor.