University of North Texas at Dallas
Spring 2014
SYLLABUS

CSCE 3220 – Human Computer Interactions	3 Credit Hours

Department of	Mathematics and Information Technology	**Division of**	Liberal Arts and Science

Instructor Name:	Professor Sam Nakib
Office Location:	On Line
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Office Hours:	Thursday and Friday 5 PM & 7 PM
Virtual Office Hours:	Thursday and Friday 5 PM & 7 PM

Classroom Location:	Online course
Class Meeting Days & Times:	

Course Catalog Description:	Human-Computer Interaction (HCI). Methods for designing, prototyping, and evaluating user interfaces for computing applications. Human capabilities, interface technology, interface design methods, and interface evaluation tools and techniques.

Prerequisites:	CSCE-2110
Co-requisites:	

Required Text:	**Designing with the Mind in Mind**, Author - Jeff Johnson ISBN: 978-0-12-407914-4** **Publisher Elsevier Science & Technology Books - Published February 10, 2014**

Recommended Text and References:	

Access to Learning Resources:	UNT Dallas Library:
	    phone: (972) 780-3625;
	    web: http://www.unt.edu/unt-dallas/library.htm
	UNT Dallas Bookstore:
	    phone: (972) 780-3652;
	    e-mail: 1012mgr@fheg.follett.com

Course Goals or Overview:

- Understand the foundations of Human Computer Interaction HCI
- Understand how human and machine capabilities and limitation impact human-computer interactions
- Recognize how and where HCI techniques are applied within the software development process, particularly in the design of web sites.
- Be able to choose HCI techniques relevant to a given problem, and gain firsthand experience applying them
- Gain familiarity with advanced topics in HCI such as multimedia, collaboration, web statistics, visualization, etc.

Learning Objectives/Outcomes: At the end of this course, the student will

1. Practical and Professional Skills: Upon finishing this course students will:
   - have an awareness of the rule of the UI in the development of software.
   - be able to promote user-centered UI development within the organization
2. be able to design and evaluate UIs Knowledge and understanding: Student will have an understanding of
   - The importance of user-centered UI design and evaluation
   - the relevant aspects if related academic disciplines, including computer science, cognitive psychology, and graphic design

- the concepts, principles, and techniques associated with designing UIs
- the concepts, principles, and techniques associated with evaluating UIs
3. Cognitive skills: After studying this course
   - Develop a UI in a flexible, iterative manner, working in close collaboration with the users.
   - Specify the profile of the user, the tasks they wish to carry out, and the environments in which they will be working
   - Design a UI that better supports the users as they carry out their tasks
   - Represent the underlying organization and structure of the UI
   - Apply design principles and guidelines
   - Choose appropriate input and output devices
   - Make effective use of text, color, sound, image, moving images, and layout
   - Designs UIs for graphical UIs and web sites
   - Develop an evaluation strategy and plan
   - Undertake user observation and inspections to evaluate UI design
   - Make use of any findings from an evaluation to improve a UI
4. Key Skills: After studding this course, students will be able to
   - Communicate effectively about UI design and evaluation
   - Provide appropriate, effective documentation for the design and evaluation process

Course Schedule

Week	Book Part	Chapter Number	Chapter Title	Project Number	Due date
1			Course Description and Introduction to Course Shell		
2	1	1	Introduction	Project 1	
		2	How to gather requirements: some techniques to use		
3	2	3	Finding out about the users and the domain		
		4	Finding out about tasks and work		
4		5	Requirements gathering: knowledge of user interface design		
		6	Thinking about requirements and describing them		
		7	Case study on requirements: Tokairo part 1		Project 1
5	3	8	Work reengineering and conceptual design	Project 2	
6		9	Design guidance and design rationale		
		10	Interaction design		
		11	Interaction styles		Peer-evaluation of project 1

7		12	Choosing interaction devices: hardware components		
		13	Choosing interaction elements: software components		
		14	Moving from choosing components into design areas		
8		15	Case study on design: Tokairo part 2		
		16	Designing a graphical user interface (GUI		
9			Spring Break		
10		17	Designing for the web		
		18	The design of embedded computer systems		
		19	Case study on requirements, design and evaluation: NATS		Project 2
11	4	20	Why evaluate the usability of user interface designs?	Project 3	
		21	Deciding on what you need to evaluate: the strategy		
12		22	Planning who, what, where and when		
		23	Deciding how to collect data		Peer-evaluation of project 2
13		24	Final preparations for the evaluation		
		25	Analysis and interpretation of user observation evaluation data		
14		26	Inspections of the user interface		
		27	Variations and more complex evaluations		Project 3
15	5	28	Communicating and using findings		
		29	Winning and maintaining support for user-centered design		
		30	Summary		Peer-evaluation of project 3

Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

Grading Matrix:

Instrument	Value (points or percentages)	Total
Project – 3 phases	Phase 1 - 25 Phase 2 – 30 Phase 3 - 45	100
Project Peer Review	Phase 1 – 30 Phase 2 – 30 Phase 3 – 40	100
Chapter quizzes	220 questions in total for the course, top 200 questions will be considered as the grade of quizzes.	200
Discussion Board Activity	100 - Each 10	100
Final Exam	Comprehensive Exam	100
Total		**600**

Grade Determination:
A = 540 - 600 pts; i.e. 90% or better
B = 480 - 539 pts; i.e. 80 – 89 %
C = 420 - 479 pts; i.e. 70 – 79 %
D = 360 - 419; i.e. 60 – 69 %
F = 359 pts or below; i.e. less than 60%

University Policies and Procedures

Students with Disabilities (ADA Compliance):

Chapter 7(7.004) Disability Accommodations for Students

The University of North Texas at Dallas makes reasonable academic accommodation for students with disabilities. Students seeking accommodations must first register with the Disability Services Office (DSO) to verify their eligibility. If a disability is verified, the DSO will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, DSO notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet/communicate with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the Disability Services Office website at http://www.untdallas.edu/disability. You may also contact them by phone at 972-338-1777; by email at UNTDdisability@untdallas.edu or at Building 2, room 204.

Blackboard Learn Accessibility Statement:
University of North Texas at Dallas is committed to ensuring its online and hybrid courses are usable by all students and faculty including those with disabilities. If you encounter any difficulties with technologies, please contact our ITSS Department. To better assist them, you would want to have the operating system, web browser and information on any assistive technology being used. Blackboard Learn course management system's accessibility statement is also provided: http://www.blackboard.com/Platforms/Learn/Resources/Accessibility.aspx

NOTE: Additional instructional technology tools, such as Turnitin, Respondus, Panopto, and publisher cartridge content (i.e. MyLab, Pearson, etc.) may NOT be fully ADA compliant. Please contact our Disability Office should you require additional assistance utilizing any of these tools.

Student Evaluation of Teaching Effectiveness Policy:
Student's evaluations of teaching effectiveness is a requirement for all organized classes at UNT Dallas. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider students' evaluations to be an important part of your participation in this class.

Assignment Policy: (According to the instructor's discretion while working in concert with the division/program's guidelines).

Exam Policy: (Online exams and the ability to retake is solely at the instructor's discretion). NOTE: Online exams may be proctored on campus per instructor's discretion.

Academic Integrity:
Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity at http://www.untdallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic_Integrity.pdf for complete provisions of this code.

Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabrication of information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students.

Web-based Plagiarism Detection: Please be aware in some online or hybrid courses, students may be required to submit written assignments to Turnitin, a web-based plagiarism detection service, or another method. If submitting to Turnitin, please remove your title page and other personal information.

Classroom Policies

Online Attendance and Participation:

The University attendance policy is in effect for this course. Class attendance in the Blackboard classroom and

participation is expected because the class is designed as a shared learning experience, and because essential

information not in the textbook will be discussed in the discussion board. Online presence and participation in all

class discussions is essential to the integration of course material and your ability to demonstrate proficiency. .

Attendance for this online or hybrid course is considered when you are logged in and active in Blackboard, i.e.,
posting assignments, taking quizzes, or completing Discussion Boards. To maintain financial aid award eligibility,
activity must occur before the census date of the session or term of the course. Refer to
http://www.untdallas.edu/registrar for specific dates. If you are absent/not active in the course shell, it is YOUR
responsibility to let the instructor know immediately, upon your return, the reason for your absence if it is to be
excused. All instructors must follow university policy 7.005 covering excused absences; however, it is the instructor's
discretion, as outlined in the course syllabus, of how unexcused absences may or may not count against successful
completion of the course

Inclement Weather and Online Classes: Online classes may or may not be effected by campus closures due to
inclement weather. Unless otherwise notified by your instructor via e-mail, online messaging, or online announcement,
students should assume that assignments are due as scheduled.

Online "Netiquette:

In any social interaction, certain rules of etiquette are expected and contribute to more enjoyable and productive

communication. Emails, Discussion Board messages and/or any other forms of written communication in the online

environment should use proper "netiquette" (i.e., no writing in all caps (usually denotes yelling), no curse words, and

no "flaming" messages (angry, personal attacks).

Racial, ethnic, or gender slurs will not be tolerated, nor will pornography of any kind.

Any violation of online netiquette may result in a loss of points or removal from the course and referral to the Dean of

Students, including warnings and other sanctions in accordance with the University's policies and procedures. Refer

to the Student Code of Student Rights Responsibilities and Conduct at http://www.untdallas.edu/osa/policies. Respect

is a given principle in all online communication. Therefore, please be sure to proofread all of your written

communication prior to submission.

Diversity/Tolerance Policy:
Students are encouraged to contribute their perspectives and insights to class discussions in the online environment.
However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities,

ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Dean of Students as the instructor deems appropriate.

Technology Requirements: In order to successfully access the materials in an online or hybrid course, UNT Dallas advises that your computer be equipped with the minimum system requirements.

Blackboard Learn 9.1 is the platform software for this course. Blackboard Learn supports major web browsers such as Windows Internet Explorer, Apple Safari, Mozilla Firefox, and Google Chrome. However, since the latter two are updated continually, some recent versions may not be compatible. If you experience difficulty accessing or using components of the course, try using Internet Explorer. Also, no matter what browser you use, always enable pop-ups. For more information see:

- http://www.untdallas.edu/dlit/ecampus/requirements
- https://help.blackboard.com/en-us/Learn/9.1_SP_12_and_SP_13/Student/040_Browser_Support_for_SP_13
- https://learn.unt.edu/bbcswebdav/institution/BrowserCheck/check_full.html

ife as the instructor deems appropriate.