COSC 3360.001 Human-Computer Interaction
School of Engineering and Computer Science
Fall 2016

A. COURSE INFORMATION

Course number/section: COSC 3360.001
Class meeting time: MWF 12:00 – 12:50 AM
Class location: CI-228
Course Website: Blackboard

B. INSTRUCTOR INFORMATION

Instructor: Mohammed Belkhouche
Office location: EN 316K
Office hours: TR 10:00 am- 12:00 pm
M 9:30 am- 10:30 am
Telephone: 361-825-3327
e-mail: mohammed dot belkhouche at tamucc dot edu
Appointments: By e-mail

C. COURSE DESCRIPTION

Catalog Course Description
An introductory course covering principles of cognition of importance to human-computer interaction, basic concepts of the human-computer interface, including interface design and evaluation, modes of interaction(command, menu, iconic), understanding the behavior of the user, diversity in user interface design, user mental models, and anthropomorphisms. Course focus is on designing user-friendly web pages with active content.

Extended Course Description
None

D. PREREQUISITES AND COREQUISITES

Prerequisites
COSC 1436 - Introduction to Problem Solving with Computers II.

Corequisites
None

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

Required Textbook(s)
Optional Textbook(s) or Other References
None

Supplies
None

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT
Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

By the end of this course, students should be able to:
1. Explain the difference between good and poor interaction design.
2. Understand the basic concepts of the human-computer interface.
3. Understand the interface design and evaluation.
4. Understand the cognitive models for understanding user behaviors.
5. Be able to apply human computer interaction design concepts and methodologies to real-world applications.

Assessment of objectives will be conducted through exams and homework assignments.

G. INSTRUCTIONAL METHODS AND ACTIVITIES
Lectures using online electronic documents and slides.

H. MAJOR COURSE REQUIREMENTS AND GRADING
This is an intermediate course. However, this is a difficult course that demands all students attend all classes! Regular completion of all reading, homework, and other outside assignments, are absolutely essential for success in this course.

Your course grade will be decided on your performance in the homework assignments, quizzes, and two exams. The distribution of points is as follows:

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
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</thead>
<tbody>
<tr>
<td>Exams</td>
<td>50</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10</td>
</tr>
<tr>
<td>Homework/Programing Assignments</td>
<td>40</td>
</tr>
</tbody>
</table>
**Grading scale:** A: 100-90, B: 89-80, C: 79-70, D: 69-60, and F: 59-0.

**Homework Assignments:** Approximately 8-10 homework assignments will be given. No late homework assignments will be accepted. Partial credit will be given for incomplete assignments. In addition, there may be a pop quiz from time-to-time.

**Quizzes:** Approximately 3-5 pop-up quizzes (dropping one or two). Each quiz is about 10 minutes long.

**Exams:** The first exam will be given on September 23, 2016, the second exam will be given on October 28, 2016 during the scheduled class time, and the final exam will be given on December 12, 2016 from 11:00 am – 1:30 pm.

### I. COURSE CONTENT/SCHEDULE

<table>
<thead>
<tr>
<th>DATE (BY WEEK)</th>
<th>TOPIC</th>
<th>CHAPTER(S)</th>
<th>ASSIGNMENTS</th>
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</thead>
<tbody>
<tr>
<td>Week 1-2</td>
<td>Introduction. The human.</td>
<td>Chapter 1</td>
<td>HW1</td>
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<tr>
<td>Week 3</td>
<td>The Computer.</td>
<td>Chapter 2</td>
<td>HW2</td>
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<tr>
<td>Week 4</td>
<td>The Interaction</td>
<td>Chapter 3</td>
<td>HW3</td>
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<tr>
<td></td>
<td><strong>Exam 1 on Friday, September 23, 2016</strong></td>
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<tr>
<td>Week 5</td>
<td>Paradigms</td>
<td>Chapter 4</td>
<td>HW4</td>
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<tr>
<td>Week 6</td>
<td>Interaction design basics.</td>
<td>Chapter 5</td>
<td>HW5</td>
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<tr>
<td>Week 7</td>
<td>HCI in the software process.</td>
<td>Chapter 6</td>
<td>HW6</td>
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<tr>
<td>Week 8</td>
<td>Implementation support.</td>
<td>Chapter 8</td>
<td>HW7</td>
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<td>Week 9</td>
<td>Evaluation techniques.</td>
<td>Chapter 9</td>
<td>HW8</td>
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<tr>
<td>Week 10</td>
<td>Universal design.</td>
<td>Chapter 10</td>
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<td></td>
<td><strong>Exam 2 on Friday, October 28, 2016</strong></td>
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<td>Week 11</td>
<td>Universal design.</td>
<td>Chapter 10</td>
<td>HW9</td>
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<tr>
<td>Week 12</td>
<td>Cognitive Models</td>
<td>Chapter 12</td>
<td>HW10</td>
</tr>
<tr>
<td>Week 13</td>
<td>Communication and collaboration models.</td>
<td>Chapter 14</td>
<td>HW10</td>
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<tr>
<td>Week 14</td>
<td>Task analysis.</td>
<td>Chapter 15</td>
<td>HW10</td>
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<tr>
<td>Week 15</td>
<td>Ubiquitous computing and augmented realities.</td>
<td>Chapter 9</td>
<td>HW10</td>
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<tr>
<td>Week 16</td>
<td>Hypertext, multimedia and the world wide web.</td>
<td>Chapter 9</td>
<td>HW10</td>
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<td><strong>Final Exam on Friday, December 12, 2016 from 11:00 AM - 1:30 PM.</strong></td>
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Note: Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.
J. **COURSE POLICIES**

**Course Syllabus:** We will meet for lecture on Mondays, Wednesdays and Fridays, when new material will be presented. We will follow the text generally, but non-text material may also be included in the lectures. The assignments and exams will be given during the class hours. You are responsible for all the material presented during the lecture.

**Exams:** Exams will cover all lecture and reading material discussed in the class. Exams must be taken on the hour they are scheduled.

**Missed Exam:** In the event, if you cannot attend the class to take the exam due to some emergency or some unavoidable situation (such as serious illness, death in the family, participation in university sports, religious observations, and so on) you must notify me as soon as possible before the exam and also you must validate your absence by providing me a document (e.g., with a letter from your doctor). Once your cause is validated a make-up exam will be given.

**Homework Assignments:** They will significantly be based on the material from the lectures and other material considered essential for the successful completion of this course. They will be posted on the course web page or hard copies are handed out in the class during the lecture sessions. The submission details will be provided to you along with the assignment. All the homework assignments and projects are due at the beginning of the class on the due date. If the student is absent on the due date, it is the student's responsibility to see to it that the assignment is submitted on the designated date. An assignment that is turned in after the class on the due date is considered one day late. There is a penalty for late submissions. Late assignments will be counted 25% off for each day after the due time. 100% penalty (i.e. no credit) if submitted after 4 days. If you have not completed your assignment by the due date, you should submit the work you have done for partial credit. No work will be accepted once the graded work has been returned or the solution has been disclosed to the class, except for unusual circumstances which the instructor feels reasonable. Note that any kind of hardware or software failure or machine unavailability in the lab does not merit an extension on the assignment. Diskettes upon which major examinations, assignments, projects or papers submitted may be retained by the instructor as a permanent record of the student's work.

**Grading Error:** All questions concerning a test score or grading of a returned test or assignment must be resolved within one week. It is always a good idea to keep all of your work until the end of the semester. In case of any recording errors or doubts, you may produce them for correction or verification.

**Academic Honesty Policy:** You are expected to avoid all forms of academic dishonesty as defined in Catalog. In addition, students are expected to behave in an ethical manner in all class activities. If you feel uncertain about a particular activity, please speak to me BEFORE problems arise. Ethical behavior is a requirement for passing this course. All work submitted for grading must be the student's own work. Plagiarism will result in a score of 0 (zero) for the work or dismissal from the course and the Dean of Students office will be notified. No copying from
another student’s work, of any class, is allowed. It is the student’s duty to allow no one to copy his or her work. Anyone found cheating and/or copying, in the exams or assignments, in the instructor's opinion, will receive an automatic F for the course.

**Collaboration:** If two or more students collaborate on an assignment, it should be notified on the assignment and each student should submit his or her solutions for grading. The grade obtained on such an assignment is the total points obtained for the assignment divided by the square of the number of people who collaborated on the assignment (e.g., if 3 people collaborate on an assignment and the grade for that assignment is 90 out of 100, then each student receives a grade of 90/3^2 = 10). If you do not notify me of such collaboration it will be treated as copied and action will be taken as discussed under the academic honesty policy.

**Attendance:** You must attend all classes and labs. While in class or lab attendance will not directly affect the grade, you are responsible for any materials covered or handed out or announcements made for the tests and assignments in your absence. Records of your attendance will be maintained and reported to the university. Students found missing classes without the instructor’s permission will be automatically withdrawn from the course.

**Absence from class:** Students are responsible for all materials covered in class and assigned. Should a student be absent from class, it is his/her responsibility to get the notes, etc. for that missed class. More important, should there be assignments, it is the student responsibility to obtain such assignments. No excuse will be accepted for assignments not turned in because the student was absent when it was due.

**Cell Phone Use:** Please refrain from using electronic devices during class, as it is distracting to not only you, but also to your instructor and peers. Silence your phones and put them away so you are not tempted to stray off task.

**Laptop Use**
Laptops, Tablets cannot be used in the class.

**Food in Class**
No food in the class or labs.

**K. COLLEGE AND UNIVERSITY POLICIES**

- **Academic Integrity (University)**
University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a failing grade.
• **Classroom/Professional Behavior**
  Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

• **Statement of Civility**
  Texas A&M University-Corpus Christi has a diverse student population that represents the population of the state. Our goal is to provide you with a high quality educational experience that is free from repression. You are responsible for following the rules of the University, city, state and federal government. We expect that you will behave in a manner that is dignified, respectful and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.

• **Deadline for Dropping a Course with a Grade of W (University)**
  The grade of W will be assigned to any student officially dropping a course. Please consult with the instructor before you decide to drop to be sure it is the best thing to do. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Should dropping the course be the best course of action, visit the Office of the University Registrar for the Course Drop Form that must be submitted. No student is eligible to receive a W without completing the official drop process by this deadline. Please consult the Academic Calendar ([http://www.tamucc.edu/academics/calendar/](http://www.tamucc.edu/academics/calendar/)) for the last day to drop a course.

• **Grade Appeals (College of Science and Engineering)**
  As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at [http://www.tamucc.edu/provost/university_rules/index.html](http://www.tamucc.edu/provost/university_rules/index.html), and the College of Science and Engineering Grade Appeals webpage at [http://sci.tamucc.edu/students/GradeAppeal.html](http://sci.tamucc.edu/students/GradeAppeal.html). For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate
department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

- **Disability Services**
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please call (361) 825-5816 or visit Disability Services in Corpus Christi Hall 116.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

[http://disabilityservices.tamucc.edu/](http://disabilityservices.tamucc.edu/)

- **Statement of Academic Continuity**
In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.

L. **OTHER INFORMATION**

- **Academic Advising**
The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or stop by the Advising Center to check availability and schedule an appointment. The College’s Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.

**GENERAL DISCLAIMER**
I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.