CSCI 524 - Analysis & Design of Software Systems

<u>INSTRUCTOR:</u>

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<u>CLASS MEETING TIMES:</u>

Web-based class, Meets 1/30/2014 through 5/9/2014

<u>TEXBOOK:</u>

System Analysis and Design - 10th Edition by Harry J Rosenblatt, Shelly Cashman Series, 2014, ISBN: 978-1-285-17134-0, ISBN10: 1-285-17134-9, ISBN13: 978-1-285-17134-0

COURSE DESCRIPTION:
General theory, concept, and techniques related to systems planning, analysis, design, implementation, support and security are studied.

Credit hours: 3.

STUDENT LEARNING OUTCOMES:

1. identify the main components of designing of a software system,
2. explain project management concepts early in the systems development process,
3. successfully tackle mini-cases and respond to real-life ethical issues in an IT environment,
4. describe structured, object-oriented, and agile systems development methods,
5. explain the importance of planning, implementing, and managing an effective IT security program,
6. explain how IT supports business requirements in today's intensely competitive environment, and describe major IT developments and trends.

TENTATIVE COURSE OUTLINE:

Following is the tentative schedule of the topics that will be covered in this course. This schedule is subject to change so it's students' responsibility to watch for course announcements that will be posted on course eCollege site.

Week	First Day	Last Day	Chapter	Presentation Subjects -Chapter Titles	Quiz	Assignment
1	Feb-3	Feb-9	Chapter 1	Introduction to Systems Analysis and Design		A1
2	Feb-10	Feb-16	Chapter 2	Analyzing the Business Case	Q1	A2
3	Feb-17	Feb-23	Chapter 3	Managing Systems Projects	Q2	A3
4	Feb-24	Mar-2	Chapter 4	Requirements Modeling	Q3	A4
5	Mar-3	Mar-9	Chapter 5	Data and Process Modeling	Q4	A5
6	Mar-10	Mar-16	**Spring Break**			
7	Mar-17	Mar-23	Chapter 6	Object Modeling	Q5	-
8	**Mar-24** Midterm Exam	Mar-30	Chapter 7	Development Strategies	-	A6
9	Mar-31	Apr-6	Chapter 8	User Interface Design	Q6	A7
10	Apr-7	Apr-13	Chapter 9	Data Design	Q7	A8
11	Apr-14	Apr-20	Chapter 10	System Architecture	Q8	A9
12	Apr-21	Apr-27	Chapter 11	Managing Systems Implementation	Q9	A10
13	Apr-28	May-4	Chapter 12	Systems Support and Security	Q10	-
14	**May-5** Final Exam (tentative)	May-9	**Final exam week**			

Quizzes are given on Mondays at 8:00 PM CST and cover the material from previous chapter.
Presentations and assignments will be available on the first day of the week.
Due dates for the assignments are the last day of the week, 11:59 PM.

EVALUATION

Assignments (10 assignments, includes case studies and projects, %3 each):	30%
Quizzes (10 quizzes, 2% each)	20%
Midterm (Chapters 1-6)	25%
Final (comprehensive of all chapters, but more on Chapters 7-12)	25%

	100%

Letter grades will be assigned according to the following scale:

A - at least 90% of the total points

B - at least 80% of the total points

C - at least 70% of the total points

D - at least 60% of the total points

F - less than 60% of the total points

COURSE REQUIREMENTS:

Assignments: There will be regularly assigned homework problems. These assignments may require the application of various software packages. Assignments will be given and returned via the online eCollege system as a convenience to the students and the instructor. It is the student's responsibility to login and check the course eCollege site daily for announcements, assignments and course-related content. It is very important that students follow the instructions carefully on the assignments. It is the student's responsibility to have all assignments ready on time by the given due date. Late assignment may not be accepted or may be penalized and assignment may not be accepted beyond a certain time.

Quizzes: Quizzes with multiple choice questions will be given at the end of each chapter to help ensure students stay up with assigned material.

Exams: Two exams will be given, one midterm exam and one final exam. Midterm exam will cover topics from Chapters 1-6, and final exam will be comprehensive. However students may expect to receive more questions from Chapters 7-12 on final exam.

You are encouraged to study the material with your fellow students, but do not work together on assignments of any kind submitted and testing periods. The allowable activity must fall within the academic integrity procedures outlined by the university. Working together must be limited to explanations about presentation topics, difficult issues you need support for clarification, and just talking about the text material. You should do your own work on exams/projects and for

assignments. Copying another student's work is not acceptable. As stated in the "Academic Ethics" section, any indication of cheating and/or plagiarism on an assignment or exam will be an automatic 0 (zero) for all students involved.

COURSE REQUIREMENT DEADLINES:

Credit will be given for ONLY those exams and/or assignments turned in no later than the deadline as announced by the instructor of this class, unless prior arrangement has been made with the instructor. Late assignments can or cannot gain partial credit. Credit for late assignments will be announced with the description of it.

ATTENDANCE:

Since this is an online learning course, each student is expected to regularly login to the course website at TAMUC eCollege. You will be required to login regularly each week to view a chapter presentation, to take a quiz or submit an assignment. I expect you will need to spend approximately 3-6 hours a week reviewing the presentations, completing quizzes and submitting assignments/projects. This will bring your class time roughly equivalent to the weekly class attendance required for an on-campus class. Your activity on e-College web site is monitored and you will get instructor emails if you become deficient in your attendance or assignments.

COMMUNICATION:

All announcements and updates about the course will be posted on course eCollege site. You will also find chapter presentations, quizzes, assignments and exams on this portal. For any questions you may have, you can contact me via email during weekdays and I'll try to respond within 24 hours. Each student is responsible for the content/instructions of email communications.

ACADEMIC ETHICS:

"All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment." (See Student's Guide Handbook, Policies and Procedures, Conduct). Ethics include the issue of plagiarism, and copying parts or whole of assignments, quizzes and exams is just as serious as any other type of plagiarism. Any indication of cheating and/or plagiarism on an exam/assignment/project will be an automatic 0 (zero) for the exam/assignment/project for all students involved. Yet, based on cheating and plagiarism activity in any section of the class, instructor holds the right to give F grade for the course to the identified student(s).

STUDENTS WITH DISABILITIES

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 have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Gee Library, Room 132
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamu-commerce.edu

DISCLAIMER:
This syllabus is meant to provide general guidance of what to expect from this course. The instructor reserves the right to make changes as appropriate based on the progress of the class. All changes made to this syllabus during the semester will be announced. This document has been posted electronically. If you print a copy of it, please be sure to consult the last modified date of the online version to verify that your printed copy is current.