

CSCI359 System Analysis and Design
DEPARTMENT OF COMPUTER SCIENCE



Syllabus

Meeting Time: Tuesday & Thursday 9:30AM-10:45AM from 01/19/2016 through 05/13/2016

Instructor: Dr. Donghoon Kwon
E-mail: donghwoon.kwon@tamuc.edu
Office: JO230
Office Hours: Tue & Thu 11:00AM-1:00PM
Others: By Appointment

Course Description:

This course will provide the student with the opportunity to experience the several phases of conventional software development in conjunction with software engineering and project management practices. This course will also focus on in-depth knowledge as well as practical experience based on scenario-based and / or real case studies. Various software architectures will be introduced. Each student is expected to fully participate in a team project over the course of the semester.

Course Objective:

This course is intended to provide necessary skills and knowledge that a system analyst, business analyst, IT project coordinator, IT project analyst, and / or IT project manager should possess. Students will learn a comprehensive and up-to-date concept of SDLC methodologies, requirement elicitation and planning, and software design in conjunction with software engineering, Function Point Analysis (FPA), Wireframe mockup, Objective Oriented Programming (OOP), project management, etc.

Student Learning Outcomes:

- Identify the main components of designing of a software system in conjunction with software engineering, FPA, and database management
- Understand general project management concepts based on life cycles, knowledge areas, processes, tools and techniques, etc.
- Create several deliverables such as a stakeholder register, project charter, BRD, FRD, SRS, SDS, SDD, UAT, etc., and learn multiple S/W tools such as WBS chart pro, MSP, Enterprise Architect, Balsamiq mockup tools, etc.
- Describe structured, object-oriented, and agile systems development methods

- Explain the importance of planning, implementing, and managing an effective software development project
- Explain how IT supports business requirements in today's intensely competitive environment, and describe major IT developments and trends

Required Textbook:

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

Supplementary Readings:

- A Guide to the Project Management Body of Knowledge (PMBOK guide 5th edition) published by Project Management Institute (PMI), ISBN-10: 1935589679, ISBN-13: 978-1935589679
- Successful Project Management-5th Edition by Gido & Clements, South-Western Cengage Learning, ISBN-10: 0-538-47898-5, ISBN-13: 978-0-538-47898-4
- Guide to the Software Engineering Body of Knowledge (SWEBOK V 3.0) published by IEEE Computer Society Press, ISBN-10: 0769551661, ISBN-13: 978-0769551661

Attendance Policy

Each student is expected to be present at all class lectures. If you are late three times for more than 15 minutes (or miss more than three classes with unexcused absence), you will automatically drop a letter grade. If you miss more than five classes with unexcused absence, you will automatically fail the course.

Communication

For any questions you may have, you can contact me via email (donghwoon.kwon@tamuc.edu) during weekdays or weekends and I will respond as early as possible. Each student is responsible for the content/instructions of email communications.

Grading

% of Total Points	Grade
90% - 100%	A
80% - 89.9%	B
70% - 79.9%	C
60% - 69.9%	D
Below 60%	F

Category	Percentage
Midterm	20%
Final Exam	20%
Term Project	30%
Assignment	10%
Class Participation	10%
Attendance	10%

- All assignments **MUST** be turned in by the assigned deadlines or a grade of zero will be assigned. Assignments will be turned in online, and all grades will be also available online. Students are required to regularly check their grades.
- Quizzes may be given as needed
- Two exams will be given, one midterm exam and one final exam. Midterm exam will primarily 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.

Examination Makeup Policy

- If a student is absent from an exam during the scheduled time for that exam, the student will automatically receive a grade of 0 for the exam unless:
 - a) the student notifies the instructor of the absence prior to the exam and supplies a written doctor's excuse explaining the absence or
 - b) there is an extraordinary situation which the instructor allows as an acceptable excuse (instructor needs to be notified within 24 hrs of the exam). If (a) or (b) applies, arrangements for a makeup exam will be made.
- It will be the responsibility of the student to show written documentation supporting the absence, from your team coach, physician, or other relevant authority.

Policy on Academic Integrity

- 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).

CSCI 359 Schedule for Spring 2016:

Week	Chapter	Topic
1	1	Introduction to Systems Analysis and Design
2	2	Analyzing the Business Case
3	3	Managing Systems Projects
4	4	Requirements Modeling
5	5	Data and Process Modeling
6	Midterm	Review
7	6	Object Modeling
8	7	Development Strategies
9	8	User Interface Design
10	9	Data Design
11	10	System Architecture
12	11	Managing Systems Implementation
13	12	Systems Support and Security
14	Final Exam	

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