University of Texas at Tyler
Soules College of Business
Department of Computer Science
COSC 3375 Analysis and Logical Design

Subject to Change

Course Information

COSC 3375 Analysis and Logical Design Fall 2023
Class Meetings will be in-person, Tuesdays and Thursdays at 8:00-9:20, COB 255

Instructor Contact

Instructor: Sara Memarian Esfahani
Office location: COB 315.16
Zoom Meeting ID: TBA
Office hours: Tuesdays and Thursdays 9:30 to 11:00 in-person or on Zoom by appointment
Email: Use the Inbox in Canvas (MUST include COSC 3375 in the Subject Line), you can also directly email me and ask your questions.
Normally, I will reply to an email within 24 to 48 hours.
To ensure a quick response over the weekends, please email me no later than Friday mornings.
Occasionally I will be unable to respond within that time frame but will inform the class in advance.

Communication Expectations

The most convenient way to communicate with the instructor is through the Inbox in Canvas. Download the mobile app for your convenience.

Discussion Board Communication
Please post general course or assignment questions to the General Course Questions & Answers Discussion Topic. Students are encouraged to respond to their fellow classmates' questions. I will read all discussion postings and add comments/suggestions/questions as necessary to keep the discussion on topic. Specific topic instructions on discussions are provided in the forums when needed.

Canvas Notifications:
Receive instant notifications about course events, such as submissions, discussion messages, and announcements through canvas. Assignments and all deliverables will be graded and returned no later than one week after the due date.

About the Professor/Instructor

Welcome to COSC 3375 Analysis and Logical Design. I am Sara Memarian Esfahani, the instructor for this course. I am excited to have you in this course and look forward to learning more about you and your academic career goals while at UT Tyler. Together we will explore a variety of topics within design of information systems and we will journey through this course together to do great things.

Course Description

The course offers an integrated perspective of the problems in today's Information Systems (IS) environment with a concentration on contemporary design methodologies and considerations unique to users of computers and IS. Topics include current systems analysis, modular design, development and implementation, documentation, project planning, task definition, and other systems analysis topics. The course emphasizes a structured approach to the analysis and design of information systems.

Course Structure

This course is a F2F course that lasts 15 weeks (1 semester). See the course schedule table at the end of this file and on Canvas.

Course Pre-requisites and/or Other Restrictions
COSC 1337 or equivalent

Course Objectives
Upon successful completion of this course, you are expected to:

- Become familiar with the foundations of organizational business processes and how they are supported by information systems.
- Become familiar with the existing approaches to systems analysis and design.
- Learn how to use a variety of tools and techniques for analyzing business problems and designing information systems.
- Gain hands-on experience in designing an information system.
- Gain exposure to modeling tools.
- Learn how to successfully plan and manage an IS project.
- Learn how to effectively communicate with potential IS users and other stakeholders.

Course Topics

1. Course Overview and Introduction
2. System Development Environment
3. Managing IS Projects
4. Object-Oriented System Development
5. Initiating and Planning Systems Development Projects
6. Determining Systems Requirements
7. Structuring Systems Process Requirements
8. Structuring Systems Data Requirements
9. Designing Databases
10. Designing Forms and Reports
11. Designing Interfaces and Dialogues
12. System Implementation
13. Maintaining Information Systems

Required Materials

- Valacich, Joseph S. and George, Joey F. Modern Systems Analysis and Design, 9th ed., Prentice Hall, 2020 (ISBN 978-0-13-517275-9) (Required)
- Additional, optional books may be announced in class as needed.

Hardware & Software Requirements for course

- Personal Computer (PC)
- Lockdown Browser and Respondus Monitor
  - A working Webcam for Respondus Monitor (no exceptions). This camera may be on your laptop or an external camera. A working webcam is required to take all exams and some quizzes. This is non-negotiable.
  - Exams require the use of Respondus Lockdown Browser and Monitor. Therefore you need to download Lockdown browser software (Links to an external site.)
  - Canvas. The course uses Canvas for communication between the instructor and students and among students.

COURSE REQUIREMENTS AND GRADING:

Your grade will be determined based on your performance on the activities identified below. No make-up for exams, simulations, or homework will be given. No "extra work" will be assigned to individuals as a replacement for, or in addition to, these components. All points will show up in Canvas. Be sure to review the grading schema below to determine your letter grade.

Individual Assignments: Up to five assignments will be given throughout the semester on topics covered in class. Most of the assignments will require the use of software such as Oracle, Microsoft Access and Microsoft Project. Details on the assignments will be provided in class.
Unless otherwise instructed, all assignments are due by the end of the due date. No assignments will be accepted after the due date.

Team Projects: Each student will participate in a systems analysis and design project as a team member. The objective of the project is to give students hands-on experience of analyzing and designing a computer-based IS application following a structured systems development methodology.

Team: Each team will consist of up to 5 members. It is the responsibility of individual students to find colleagues to work with as a team. Once a team is formed, each member has obligation to stay and function as a productive team member until the completion of the project. Any disputes, conflicts, and problems within a team must first be resolved among the members.
Each team will elect a team leader who will be responsible for coordinating various project tasks and communicating with the instructor. You may also elect or assign different titles to team members, reflecting different duties and specializations. The performance of a team will always be graded as a single unit. However, individual members will receive an adjusted grade at the end of the semester, which reflects the level of contribution as assessed by peers.

Case: Each team will select a case to be analyzed for its problem, propose a solution, and develop an application following the SDLC approach.

Milestone Reports (100 points):
At the end of each important phases of the project, each team will prepare and submit a report that documents all relevant information as specified in the project case.

Milestone	Title	Chapters	Due	Points
1	System Proposal	**1-5**	**Oct 14**	50
2	System Requirement Analysis	**6-7**	**Nov 18**	50
3	System Design	**9-12**	Incorporated into the final report	
4	System Implementation and Maintenance	**13-14**		

Presentation and Demonstration (50 points):
At the conclusion of the project, each team will make a presentation to demonstrate the system and discuss any relevant issues. The objective of these presentations is to deliver the finished system that meets the needs of the user.
Prepare and record your project presentation in Zoom. Submit your presentation recording to the assignment site in Canvas.

Final Report (100 points):
Final report collects and organizes all documents prepared and used throughout all phases of the project.
The following is a list of minimum requirements for the report:

- Table of contents
- Executive summary
- Page number on each page (except the cover page)
- All reports and documents collected or produced during the project

- All support diagrams and printout

Peer Evaluation (50 points)
All members of the team will receive the same grade for the presentation and the report. At the end of the project (after the report has been submitted), the team members will anonymously evaluate each other on their levels of contribution to the project. The result of this evaluation will determine the points each member will receive for the peer evaluation part of the project grade.
In your evaluation, consider the following (but not limited to):

- Did the member complete assigned tasks in a timely manner?
- Did the member complete the tasks correctly and in a professional manner?
- Did the member attend all meetings?
- Did the member actively participate and make valuable contribution during the meetings?
- Did the member encourage others to do well as a team?

Provide your evaluation in Canvas – Peer Evaluation (Team Project) in the Assignments section.

Report Requirements (All Reports)

- All report assignments are due by the end of the due date unless otherwise instructed. No assignment will be accepted after the due date.
- All reports prepared in Word should include a cover page with the following information:
  - ✓ Team name
  - ✓ Names of team members
  - ✓ Title (e.g., Milestone 3 Modeling the System's Data)
  - ✓ Class and section (i.e., COSC 3375)
  - ✓ Due date
- All pages except the cover sheet must be numbered.

EXAMS: There will be two exams during the semester. You will be tested on all material assigned or taught in this course which includes software projects, quizzes, videos, etc. Respondus Lockdown Browser & Monitor is required to take all exams which require a webcam feature. Instructions are posted on canvas.

CLASS QUIZZES, ATTENDANCE, AND PARTICIPATION

Regular and punctual attendance for the full class period is expected. Attendance will be recorded. You must attend the entire class to avoid being recorded absent. Any student whose absences exceed the equivalent of two weeks of the class without proper notice may be dropped by the instructor with a WF for nonattendance.
You are expected to come to class prepared. That means you will need to read the assigned chapters and other materials before coming to class and be fully prepared to actively engage in discuss with the class. A quiz will be given in each class in order to assess your preparedness.

If you find that there is no grade recorded for submitted work, or if you want to dispute a grade, you must send your instructor an email about the problem NO LATER THAN 2 DAYS after the submission date. Beyond that date, we will no longer deal with this type of problem.

GRADE CRITERIA: All course work is always due at 11:59 p.m., unless otherwise noted. If you have not finished your projects, submit whatever you have completed. You will earn credit for what you complete.

Assignments (Subject to change)	**Points Possible (Approx.)**
Individual Assignments	100
Class Quizzes, Attendance, and Participation	200

Team Project	300
Exam 1	200
Exam 2	200
Total Points Possible with no extra credit	**1000**

Total Points (%)	Letter Grade
900 & above	A
800 - 899	B
700 - 799	C
600 - 699	D
599 & below	F

Schedule (subject to change)
Due by Friday 11:59 p.m. unless otherwise noted

Week	Date	Topic / Reading	Note
Week 1	8/22 8/24	Course Overview Microsoft Project	• Understanding the Syllabus • Introduce Yourself
Week 2	8/29 8/31	Chapter 1- System Development Environment	• Project team formation
Week 3	9/5 9/7	Chapter 3- Managing IS projects Chapter 3A- Object-oriented System Development	• Assignment 1 due September 23
Week 4	9/12 9/14	Chapter 5- Initiating and Planning System Development Projects	• Chapter 1 and 3 quizzes
Week 5	9/19 9/21	Chapter 6- Determining System Requirements Team Project	• Chapter 5 quiz
Week 6	9/26 9/28	Chapter 7- Structuring System Process Requirements	• Milestone 1 due Friday October 14
Week 7	10/3 10/5	Midterm Exam (Chapters 1,3, 5, 6, 7)	• Assignment 2 due Friday October 21
Week 8	10/10 10/12	Chapter 8- Structuring System Data Requirements	
Week 9	10/17 10/19	Chapter 9- Designing Databases	• Assignment 3 due November 4 • Chapter 8 quiz
Week 10	10/24 10/26	Chapter 10- Designing Forms and Reports	• Milestone 2 due Friday, November 18 • Chapter 9 quiz
Week 11	10/31 11/2	Chapter 11- Designing Interfaces and Dialogues	• Assignment 4 due Friday, November 25 • Chapter 10 quiz
Week 12	11/7 11/9	Chapter 13- System Implementation	• Chapter 11 quiz
Week 13	11/14	Chapter 14- Maintaining Information Systems	• Chapter 13 quiz

	11/16		
Week 14	11/21 11/23	Thanksgiving- Holiday	
Week 15	**11/28** **11/30**	Team Projects	• Presentation and Final Report due Friday, December 9
Week 16	12/5	Final Exam Chapters 8-11 and 13-14	

Code of Conduct and Ethics

Academic integrity must be exhibited in your academic work, methods and conduct. Course work for which you receive an individual grade must be your original, individual effort. If any evidence exists of copying, cheating, or any other forms of academic dishonesty on all, or part, of your graded course work, you (and any others involved) will be awarded a ZERO for that work. Sharing files also counts as academic dishonesty. A second incident will result in a grade of an "F" in this course and a recommendation for further action by the office of the Vice President for Student Development.

A few key points to remember:

I would like to point out some of the activities we have sanctioned (awarded "F" grade and sometimes even more, removed from dean's list, merit list etc.). I want to share this so that you know that we careintegrity of the degree you receive from UT Tyler.

1. In one of the semesters, some exams were conducted using Respondus lockdown browser and video monitoring. However, some students took advantage of a loophole and had help from resources outside the screen and camera. Our instructors viewed 120 hours of video recording and found a group of students involved in a coordinated plagiarism. All were sanctioned, with some losing even scholarships!
2. In one instance, a student outsourced all his assignments to a person outside this country. The assignments were flagged for abnormal activities and with the help of some technology providers we were able to trace the IP address. The student was sanctioned (awarded a "F" grade in the course))
3. In multiple instances, students have had to borrow a laptop from another student in the course and posted something as them because they had not logged out of Canvas. This is considered misconduct on the part of both students. DO NOT give another student access to your UTTyler accounts.

Almost exams and quizzes have multiple versions, and the numbers and options are different. So, if you use your peer – the chance of choosing the wrong answer is extremely high. In worst cases (it has happened in some instances), the student would have used the numbers and details.

The instructor will post both UNOFFICIAL grade reports using Canvas.

THREE BEFORE ME RULE: If you have any issues or questions about assignments, class policies and schedules, etc. and want to speak with me (the Professor), please remember the three before me rule as stated in the next sentence. You must have attempted at least three options before you come to me. For example: TA, tutor, grader, etc. You must tell me what you tried and the results, including screen prints of errors or printed error messages.