ITSS 4330 System Analysis and Design
Fall 2016

Professor's Contact Information

Name: ***Sunela Thomas***
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Office Hours: *by appointment, please email to schedule*

Class Information

Class Location: *JSOM 1.212*
Class Time: *Thursdays 7:00 – 9:45pm*

TA's Contact Information

TA: *Pallavi Vijay*
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TA Office Location: *TBD*
TA Office Hours: *TBD*

General Course Information

Course Description

To provide the student with an in-depth knowledge of object oriented systems analysis and design procedures. Software project management techniques will be covered. At the end of the course, the student will be able to analyze business situations and design computer based information systems using object oriented methodologies.

This is a Communication Enhanced Course (CEC). CEC are courses in which you will strengthen your writing and speaking skills while you deepen your understanding of key material in your major. Both studies and employers tell us that your ability to write clearly and speak well about topics in your field will strongly increase your chances of professional success. CEC's will help you to develop as a professional communicator and demonstrate your abilities to your instructor and to potential employers. JSOM undergraduates will take 2 CEC's before they graduate. You are encouraged to seek help with your speaking and writing at the Business Communications Center (https://bcc.utdallas.edu).

Learning Outcomes

Students will:

1. Understand object oriented analysis and design methods.
2. Model an information system using Unified Modeling Language (UML) diagrams.
3. Analyze an existing system and identify the causes of an information related problem, and design a new system to mitigate these problems.
4. Understand the unique issues of managing information systems development projects.

Prerequisites

ITSS 3312: Object Oriented Programming & ITSS 4300: Database Fundamentals

Required Text

- Systems Analysis and Design (An Object Oriented Approach with UML) by Dennis, Wixom, Tegarden, Wiley Fifth Edition **ISBN: 978-1118804674**
- Textbooks can be purchased online or from the UTD bookstore
- Any modeling software (Visual Paradigm, Visible Analyst, etc.) or Microsoft Visio can be used for creating the diagrams

Academic Calendar

The following is a tentative schedule, which I will try to follow as closely as possible. Any changes that become necessary will be announced in class and posted in eLearning course site.

Date	Week	Topics	Assignment/Project Due
8/25/16	1	Introduction to the Course Chapter 1: Introduction to System Analysis and Design	
9/1/16	2	Chapter 2: Project Management Assignment & Group Project discussion	
9/8/16	3	Basic Concepts in Object Orientation Chapter 3: Requirements Determination	Group Project – Milestone 1 Individual Assignment 1
9/15/16	4	Chapter 4: Business Process & Functional Modeling Chapter 5: Structural Modeling	Individual Assignment 2
9/22/16	5	Chapter 6: Behavioral Modeling	
9/29/16	6	Use Case Analysis Review for Exam 1	Individual Assignment 3
10/6/16	7	**EXAM 1**	
10/13/16	8	Chapter 7: Moving on to Design	Group Project – Milestone 2 Individual Assignment 4
10/20/16	9	Chapter 8: Class & Method Design	
10/27/16	10	Chapter 9: Data Management Layer Design Chapter 10: Human-Computer Interaction Layer Design	Individual Assignment 5
11/3/16	11	Chapter 11: Physical Architectural Layer Design	Group Project – Milestone 3
11/10/16	12	Chapter 12: Construction	Individual Assignment 6
11/17/16	13	Chapter 13: Installation & Operations Review for Exam 2 (?)	
11/24/16		HOLIDAY **No Class	
12/1/16	14	**Project Presentations** Review for Exam 2	Group Project – Milestone 4 **Group Project Presentation** Individual Assignment 7
12/8/16	15	**EXAM 2**	

Course/Assignment/Project/Exam Guidelines & Policies

- **All assignments must be submitted by the due date/time**. Late assignments are NOT accepted.
- Written assignments must adhere to the **APA** style guide of formatting, citing and referencing.
- The exams will consist of multiple choice, fill-in-the-blank, true/false, matching, and short essay questions. Make up exams will not be given unless there is a compelling situation.
- **Exam 1** covers chapters 1- 6 and any additional material.
- **Exam 2** covers chapters 7 – 12 and any additional material.
- **No** extra credit assignments are available.
- All assignments will be **submitted via eLearning**. I do NOT accepts assignments via email. If you submit an incorrect assignment or need to resubmit your assignment in eLearning, you will be allowed to resubmit as long as it is before the due date. Send me an email requesting to clear your submission sufficiently in advance for me to clear the assignment and allow you to submit on time.
- eLearning will be used for class content (slides, assignment descriptions) and the recording of grades. Slides will be posted before class is held. Class announcements (change in assignment dates) will be posted in eLearning.
- The instructor will respond to all student inquiries within 48 hours excluding holidays and weekends.
- **Attendance is extremely important**. Students are expected to attend all classes in order to achieve maximum success. Attendance will be taken and used in consideration for the participation grade. However, this grade will also reflect the instructor's judgment of the value of contributions to class discussions. There is no makeup for missed in-class assignments.

Grading

This course will feature a mix of activities – written and verbal assignments that may be in class or on campus. Homework will include readings from the text, assignments, and activities that usually require the student to complete some type of task. The instructor will provide detailed instructions as well as the grading criteria for each assignment. Please consult the course schedule for deadlines.

Grading Scheme

Grading Component	**Percentage**
Individual Assignments	35%
Exams (1 & 2)	30%
Group Project (modules and presentations)	30%
Class Participation & Attendance	5%
Total	**100%**

Grading Scale

Letter Grade	% of Total
A	93 – 100
A-	90 – 92
B+	87 – 89
B	83 – 86
B-	80 – 82
C+	77 – 79
C	73 – 76
C-	70 – 72
D+	67 – 69
D	63 – 66
D-	60 – 62
F	0 - 59

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.

Please go to http://go.utdallas.edu/syllabus-policies for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.