

The University of Texas at Dallas
The Naveen Jindal School of Management
MIS4330.501 - SPRING 2013 - Course Syllabus

Course Information

Course Number/Section: MIS4330.501
Course Title: System Analysis and Design
Term: Spring 2013
Day and Time: Thursday 7:00 PM - 9:45 PM
Classroom: JSOM2.714

Instructor Contact Information

Professor: Thuan Nguyen
Office Location: JSOM 2.409
Office Hours: Monday 6:00 PM - 7:00 PM
EmailAddress: For all written communication, E-Learning is required

Course Prerequisites

Prerequisites: MIS4310/MIS4311/MIS4312, MIS4300, MATH1326, and MATH 2333 or OPRE 3333

Course Descriptions

The primary objective of this course is to provide the student with an in-depth knowledge of object oriented systems analysis and design procedures, including software project management. The student is required to use one of popular software tools in modeling. 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.

Course Learning Objectives

1. Understand object oriented analysis and design methods
 2. Be able to model an information system using Unified Modeling Language (UML) diagrams
 3. Be able to 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 issues
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RequiredTextbook

System Analysis and Design with UML Version 2.0, 4th edition, by Dennis, Wixom, and Tegarden
Wiley - John Wiley and Sons, Inc.
(ISBN-10: 1118037421; ISBN-13: 978-1118037423)

Required Software

Students can use IBM Rational Modeler software or Microsoft Visio in modeling.

A trial copy with full features of IBM Rational Modeler software can be obtained from this web site:

Link: <http://www.ibm.com/developerworks/downloads/r/modeler/>

This is a Communication-Enhanced Course (CEC)

CECs 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. CECs will help you to develop as a professional communicator and demonstrate your abilities both to your instructor and to potential employers. JSOM undergraduates will take 2 CECs before they graduate.

HomeworkandExams

There are six homework assignments throughout the course. The lowest homework grade will be dropped. Students are required to submit their homework on time.

There are two exams: Exam 1 and Exam 2

All requests, including re-grading, regarding to a homework assignment or an exam must be submitted in writing via E-Learning.

Make-Up Policy

No make-up tests will be offered except for medical reasons.
Students are required to provide necessary documentation.

Late-workPolicy

All assignments are to be submitted via E-Learning.
The deadline for submitting an assignment is 11:00 PM on the due date.
Late submissions can still be submitted via E-Learning up to 24 hours after the deadline.
Assignments submitted within 24 hours after the due date/time will be subject to a 25% penalty.
No submissions will be accepted later than 24 hours after the deadline.

Class Schedule

The following is a tentative schedule. Should any change become necessary, it will be announced in class as well as posted in the E-Learning. It is the student's responsibility to check for changes in the schedule.

Week	Date	Topics	Suggested Reading
1	1/17/2013	Course Overview Introduction to modeling Introduction to UML 2.0 Introduction to IBM's Rational Modeler software	
2	1/24/2013	Introduction to System Analysts and Info. System Development Basic Concepts in Object-Orientation Object-Oriented System Analysis and Design Homework #1 is assigned	Chapter 1
3	1/31/2013	Project Initiation Requirements Determination Class Project Kick-start	Chapter 2 Chapter 3
4	2/7/2013	Business Process and Functional Modeling Use cases and use case diagrams Homework #1 is due Homework #2 is assigned	Chapter 4
5	2/14/2013	Structural Modeling Classes and Class diagrams	Chapter 5
6	2/21/2013	Behavioral Modeling Sequence diagrams Homework #2 is due	Chapter 6

		Homework #3 is assigned	
7	2/28/2013	From Analysis to Design Review for EXAM 1 Project Executive Summary and Problem Statement are due	Chapter 7
8	3/7/2013	EXAM 1 Homework #3 is due	
9	3/14/2013	NO CLASS - SPRING BREAK	
10	3/21/2012	Class and Method Design Homework 4 is assigned	Chapter 8
11	3/28/2013	Data Management Layer Design	Chapter 9
12	4/4/2013	Introduction to User Experience (UX) and User Interface (UI) Design Homework #4 is due Homework #5 is assigned	Chapter 10
13	4/11/2013	System Design Testing	Chapter 12
14	4/18/2013	Project Presentation Homework #5 is due Homework 6 is assigned	

15	4/25/2013	Review for EXAM 2 Project Presentation	
16	5/2/2013	EXAM 2 Homework 6 is due Project Report is due	

Grading Policy

Homework assignments:	30%
Exam 1:	25%
Exam 2:	25%
Project:	20%

The final letter grade is determined as follows:

A+ : 96 - 100	B+ : ≥ 83 ..< 87	C+ : ≥ 73 ..<77	D+ : ≥ 63 ..<67	F : Below 57
A : ≥ 90 ..< 96	B : ≥ 79 ..< 83	C : ≥ 69 ..<73	D : ≥ 59 ..<63	
A- : ≥ 87 ..< 89	B- : ≥ 77 ..< 79	C- : ≥ 67 ..<69	D- : ≥ 57 ..< 59	

Student Conduct and Discipline

The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, *A to Z Guide*, which is provided to all registered students each academic year.

The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the *Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3*, and in Title V, Rules on Student Services and Activities of the university's *Handbook of Operating Procedures*. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff

members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

Academic Integrity

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work. Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.

Email Use

The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.

Withdrawal from Class

The administration of this institution has set deadlines for withdrawal of any college level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, the instructor cannot drop or withdraw any student. The student must do the proper paperwork to ensure that he/she will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.

Student Grievance Procedures

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's *Handbook of Operating Procedures*.

In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the dean will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.

Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.

Incomplete Grades

As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the coursework has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of **F**.

Disability Services

The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.

The contact information for the Office of Disability Services is:

The University of Texas at Dallas, SU22
PO Box 830688
Richardson, TX 75083-0688

Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note taking, or mobility assistance.

It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.

Religious Holy Days

The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.

The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.

If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or

the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.

Off-Campus Instructions and Course Activities

Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at

http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm.

Additional information is available from the office of the school dean.

These descriptions and timelines are subject to change at the discretion of the Professor.

