

CourseITSS 4330 Systems Analysis and DesignInstructorPrithi NarasimhanTermSpring 2016

Course Information	
Course Number/ Section Course Title Term	ITSS 4330.001 Systems Analysis and Design Spring 2016
Days and Times	Mondays and Wednesdays, 10:00 AM to 11:15 AM Except Martin Luther King Day and Spring Break (Monday, 18 th January; Monday, March 14 th to Saturday, March 19 th)
Exam Dates	Exam 1: 22nd February and 24 th February Exam 2: 25 th April and 27 th April
Location	JSOM 2.106
Instructor Contact Informatio	n
Instructor Office Phone Email Address Office Location	Prithi Narasimhan (972) 883-5007 Please use e-learning to contact me (Course Messages) JSOM 3.811
Office Hours	By appointment.
	Mondays – 12:30 to 1.30 PM and 5:30 to 6:30 PM Tuesdays – 1:15 to 2:15 PM and 4:00 to 5:00 PM Wednesdays – 11:30 to 1:00 PM Thursdays – 1:15 to 2:15 PM

Teaching Assistant Contact Information

Teaching Assistant	To Be Announced.
Office Hours	To Be Announced.
Office Location	To Be Announced.
Email Address	To Be Announced.

Prerequisites

ITSS 3312: Object-Oriented Programming and (MATH 1326 or MATH 2414 or MATH 2419) and (MATH 2333 or OPRE 3333 or MATH 2418 or MATH 2415 or CS 2305)

Corequisite: ITSS 4300: Database Fundamentals

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. (3 semester hours)

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. You are encouraged to seek help with your speaking and writing at the Business Communication Center (http://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.

Required Texts & Materials

Systems Analysis and Design with UML Version 2.0 by Dennis, Wixom, and Tegarden, Wiley Fourth Edition.

Textbooks can be ordered online through Off-Campus Books or the UTD Bookstore. They are also available in stock at both bookstores.

Rational Software Modeler Software or Visual Paradigm, which can be downloaded from ibm.com for a trial period.

You can use other software like Visio, if you are more comfortable using that software. Visio is available in the labs.

Course Schedule/ Topics

This is a **tentative** class schedule; changes to the schedule will be posted in eLearning. There are 15 meetings in this course including the two exams. The following gives a tentative outline and sequence of the topics to be covered or the activities to take place (exams or assignments) in these meetings. Assignments are due at the beginning of class; for example, an assignment due in Class 2 should be submitted through elearning before the start of Class 2. Agenda, topics and homework for each meeting will be posted before the class or shortly after the class.

Date	Week	Topics	Assignement/ Project Due	References
Monday, January				
11, 2016				
		Introduction to the Course		
Wednesday,		The Systems Analyst and Information		
January 13, 2016	1	Systems Development		Chapter 1
Monday, January	Martin Lut	her King Day **** No Class ****		
18, 2016				
Wednesday,				
January 20, 2016	2	Project Selection and Management		Slides
Monday, January				
25, 2016		Project Management in Information		
		Technology	Group Project	
Wednesday,		Project Management Process Groups	Module 1	Chapter 2,
January 27, 2016	3	and Knowledge Area	Individual Assignment 1	Slides
Monday, February				
1, 2016				
Wednesday,		Basic Concepts in Object Orientation		Chapter 3,
February 3, 2016	4	Requirements Definition	Individual Assignment 2	slides
Monday, February				
8, 2016				
Wednesday,		Functional Modeling		Chapter 4
February 10, 2016	5	Structural Modeling		and 5
Monday, February				
15, 2016				
Wednesday,				
February 17, 2016	6	Behavioral Modeling	Individual Assignment 3	Chapter 6
Monday, February				·
22, 2016	_	EXAM 1 - Part 1		
Wednesday,	7			
February 24, 2016		EXAM 1 - Part 2		
Monday, February				
29, 2016				
Wednesday, March				
2, 2016	8	Project Scope and Time Management		Slides
Monday, March 7,	0			Sildes
2016		Moving into Docign		
Wednesday, March		Moving into Design Class and Method Design		-
9, 2016	9	Stakeholder management	Individual Assignment 4	Chapter 7,8
	5	Spring Break **** No Class ****		
Monday, March 14,		Spring break into class		

2016				
Wednesday, March				
16, 2016				
Monday, March 21,				
2016		Data Management Layer Design		
Wednesday, March		Human Computer Interaction Layer –	Individual Assignment 5	Chapter 9,
23, 2016	10	Design	Group Project 2	10
Monday, March 28,				
2016				
Wednesday, March		Software Quality Assurance		
30, 2016	11	Quality Management	Group Project 2	Slides
Monday, April 4,				
2016				
		Physical Architecture Design		
Wednesday, April		Project HR, Communication		Chapter 11,
6, 2016	12	Management	Individual Assignment 6	slides
Monday, April 11,				
2016				
Wednesday, April		Project Risk Management		
13, 2016	13	Project Cost Management		
Monday, April 18,				
2016			Group Project 3	
Wednesday, April				
20, 2016	14	Project Presentations		
Monday, April 25,				
2016	15	EXAM 2 – Part 1		
Wednesday, April	10			
27, 2016		EXAM 2 – Part 2		

Assignment Guidelines

- All reading is to be completed before class on the date posted.
- All assignments must be submitted at the beginning of class. Late assignments are NOT accepted. There will be a penalty of 20% for each day the submission is late for up to 3 days. Late submissions will not be accepted after 3 days from the due date.
- Written assignments must adhere to the APA style guide of formatting, citing, and referencing.
- Descriptions of assignments will be posted as they are assigned.
- The exams will consist of multiple choice, fill-in-the-blank, and short essay questions. Exam II is not comprehensive. Make-up exams will not be given unless there is a compelling situation.
- No extra credit assignments are available.

- General grading criteria can be found in eLearning. Assignment specific grading criteria will be included with the assignment instructions.
- All assignments will be submitted via eLearning. I do *not* accept 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 prior to the due date and I will clear your submission. Upon doing so, you will be able to resubmit.

Grading

This course will feature a mix of activities and 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.

Grade Component	Percentage
Assignments	35%
Exams	30%
Group Project	30%
Class Participation	5%
Total	100%

Grading Scheme

Scoring

Final % Total	Letter Grade
>=93	A+
>=90 and < 93	А
>=86 and < 90	A-
>=82 and < 86	B+
>=78 and < 82	В
>=74 and < 78	В-
>=70 and < 74	C+
>=66 and < 70	С
>=62 and < 66	C-
>=58 and < 62	D+
>=54 and < 58	D
< 54	F

Course & Instructor Policies

eLearning will be used for class content (e.g., class slides and assignment descriptions) and the recording of grades. Slides will be posted in before class is held. Class announcements (e.g., change in assignment

dates) will be sent to the student email on record in eLearning. It is the students' responsibility to regularly check their email accounts.

Instructor Response Policy: The instructor will respond to all student inquiries (emails, voice messages, etc.) within 48 hours (excluding holidays and weekends).

Attendance Policy/ Class Participation: Positive contributions to the class in terms of insightful comments or discussion (not just any relevant comment) in class at the appropriate times will be rewarded. Disruptive activities (using mobile phones in class, unnecessary talking with each other while the class is in progress, walking out of class abruptly while the class is in progress, walking into class late multiple times etc.) will be penalized. Barring these clearly positive and negative contributions to the class, one can expect to obtain 8 out of the 10 points meant for class participation. Attendance, by itself, is not directly given credit.

Late Work: All assignments are due at the beginning of class (not during and not after), on the specified date. I do not accept late assignments unless prior arrangements have been made with the instructor. A penalty of 20% per day (including weekends) will be assessed on late assignments for the first 5 days. After 5 days from the due date, late submissions will not be accepted.

Academic Integrity: The University is committed to academic excellence and expects academic honesty from all members of the University community and believes that it is essential for academic excellence and integrity. Academic honesty includes adherence to guidelines established by the instructor in a particular course for both individual and group work. It prohibits representing the work of others to be one's own (plagiarism); receiving unauthorized aid on an assignment (cheating); and using similar papers or other work products to fulfill the obligations of different classes without the instructor's permission. Penalties for academic dishonesty may include a grade of "F" on the work in question or for the course. In addition, any student engaged in academic dishonesty will be subject to disciplinary action. Please refer to the General Polices website (see below) for detailed information pertaining to academic dishonesty, including procedures for determining disciplinary action.

WORKING TOGETHER on Individual Assignments: This course will have a considerable amount of computing work for application assignments. Each student, is expected to do their own work on the "individual" assignments. Copying another student's work (computer files) or having another person do your work is scholastic dishonesty and will be dealt with accordingly.

Makeup Exams: I do not give make-up exams unless a student presents convincing proof of conditions that prevent him/her from taking the exam at the scheduled time.

Lap-tops: The use of lap-tops will not be permitted during the class or during the exams, unless there is a group project that needs to be presented in the class or during in class activities.

General Policies & Procedures

For information regarding general University policies and procedures, please go to http://go.utdallas.edu/syllabus-policies. These policies include the following:

Technical Support

- Field Trip Policies, Off-Campus Instruction and Course Activities
- Student Conduct and Discipline
- Academic Integrity
- Copyright Notice
- Email Use
- Withdrawal from Class
- Student Grievance Procedures
- Incomplete Grade Policy
- Disability Services
- Religious Holy Days
- Avoiding Plagiarism