

University of Texas at Dallas - School of Management

			Course Title		Spreadsheet Modeling & Analytics					
			Course		OPRE 6332					
			Term		Spring	2017				
					Section		Day	Time		Loc
					001		Mon	14:30 - 15:45	PM	JSOM
					001		Wed	14:30 - 15:45	PM	JSOM
					501		Mon	19:00 - 21:45	PM	JSOM
					0W1		online			
<u>Contact Information</u>				Professor	Kannan Ramanathan					
				Email	kxr087000@utdallas.edu					
				Phone	(972) 883-5953					
				Office Location	JSOM 3.622					
				Office Hours	Monday 5:30 - 6:30 PM (by appointment only)					
You can meet with either TA. Make sure you have scheduled an appointment.										
<u>Teaching Assistant's Contact Information</u>										
				Name	Keerthana Rajendran					
				Email	kxr154730@utdallas.edu					
				Office	JSOM 2.604					
				Office Hours	Tuesday 4:00 PM - 6:00 PM					
<u>Teaching Assistant's Contact Information</u>										
				Name	Dong Wang					
				Email	dxw150730@utdallas.edu					
				Office	JSOM 2.604					
				Office Hours	Friday 4:00 PM - 6:00 PM					

Course Description

This course introduces the basic concepts of model building and encourages students to take an analytical view of business making. Microsoft Excel (Versions 2013/2016, Windows Environment) is used to build models. The course covers conceptual effective spreadsheet design and use, and students acquire knowledge about specific decision making techniques for business optimization. Students build spreadsheet models to identify choices, formalize trade-offs, specify constraints, perform analyses, and analyze the impact of uncertainty. Applications in supply chain management, transportation, marketing and are examined. Note: This is a fun, but demanding, course. Each week, you should be able to commit a lot of time to prepare each class, and to complete homework assignments which are a significant part of your grade.

Learning Objectives

		At the conclusion of this course, the student should:							
		1	be able to identify the conceptual structure of a decision or planning problem						
		2	understand the logic associated with the components and process of model development						
		3	assess the significance and limitations of model outputs for managerial insights and action						
		4	appreciate the power and limitations of MS Excel in modeling						
		5	appreciate the potential of management science in addressing management issues						

Required Text

Introduction to Spreadsheet Modeling and Analytics

Book will be available at UTD bookstore ONLINE

Eighth Edition, by Kannan Ramanathan

Do not use a photocopied or scanned version of the textbook
Copyright violation is prohibited by law

Three copies of the book will be on reserve in the library. You can use this resource for free.

Also Required:

Excel 2013 or 2016 (Windows Platform - Any version) you can use a Mac; but I am not familiar with Mac	Flashdrive - with at least 0.5 GB
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Note: make sure you are using Excel 2013 or 2016

Assignments & Academic Calendar

The following is a tentative schedule, which I will try to follow as closely as possible.

Should any changes become necessary, I will announce it in class and by email sent to your UTD email address.

FOR EACH QUIZ AT THE TESTING CENTER, YOU MUST RESERVE YOUR SEAT

Week	Section	Day	Date	Topic
1	001	Mon	Jan-09	Chapters 1 through 6
	001	Wed	Jan-11	Getting started with Excel; the command system; the file system; navigation;
	501	Mon	Jan-09	working with data; referring to data
2	001	Mon	Jan-16	Due to Martin Luther King Holiday on Monday, Jan 16th, <u>no class this entire week</u> for Section 001 <u>and</u> Section 501, to be in sync with each other
	001	Wed	Jan-18	
	501	Mon	Jan-16	
3	001	Mon	Jan-23	Chapters 7 through 11
	001	Wed	Jan-25	Validating data; Naming Cells; Protecting and Backing Up Data; Formatting; Functions
	501	Mon	Jan-23	
4	001	Mon	Jan-30	Quiz 1 - For details see course page on elearning
	001	Wed	Feb-01	Chapters 12 - 13
	501	Mon	Jan-30	Date and Time Functions; Lookup and Reference Functions
5	001	Mon	Feb-06	Review of Quiz 1
	001	Wed	Feb-08	Chapters 14 - 16
	501	Mon	Feb-06	Logical Functions, Math Functions, String Functions
6	001	Mon	Feb-13	Quiz 2 - For details see course page on elearning
	001	Wed	Feb-15	Chapters 17 - 18
	501	Mon	Feb-13	Information Functions; Finance Functions
7	001	Mon	Feb-20	Review of Quiz 2
	001	Wed	Feb-22	Chapter 18
	501	Mon	Feb-20	Finance Functions

8	001	Mon	Feb-27	Chapter 19 Spreadsheet modeling and What-If Analyses
	001	Wed	Mar-01	
	501	Mon	Feb-27	Review for Mid-Term Exam
9	001	Mon	Mar-06	<p>Mid-Term</p> <p>For details see course page on elearning</p> <p>No class on March 8th, for Section 001</p>
	001	Wed	Mar-08	
	501	Mon	Mar-06	
10	001	Mon	Mar-13	SPRING BREAK - NO CLASS
	001	Wed	Mar-15	
	501	Mon	Mar-13	
11	001	Mon	Mar-20	Review of MidTerm. This review is your only opportunity to discuss questions related to MidTerm. Do not miss this review as I will not discuss the MidTerm later or during hours.
	001	Wed	Mar-22	
	501	Mon	Mar-20	Chapter 20, Introduction to Optimization
12	001	Mon	Mar-27	Quiz 3 - For details see course page on elearning
	001	Wed	Mar-29	
	501	Mon	Mar-27	Practice with modeling problems (chapter 20)
13	001	Mon	Apr-03	Review of Quiz 3
	001	Wed	Apr-05	
	501	Mon	Apr-03	Practice with modeling problems (chapter 20) (continued)
14	001	Mon	Apr-10	Quiz 4 - For details see course page on elearning
	001	Wed	Apr-12	Chapters 21 through 22
	501	Mon	Apr-10	Filters, pivot tables

15	001	Mon	Apr-17	Review of Quiz 4
	001	Wed	Apr-19	
	501	Mon	Apr-17	Chapter 23
				Introduction to Visual Basic for Applications
16	001	Mon	Apr-24	Quiz 5 - For details see course page on elearning
	001	Wed	Apr-26	Introduction to Visual Basic for Applications
	501	Mon	Apr-24	
17	001	Mon	May-01	Chapter 23
	001	Wed	May-03	Introduction to Visual Basic for Applications (concluded)
	501	Mon	May-01	Review for final
18	001	Mon	May-08	Final - For details see course page on elearning
	001	Wed	May-10	
	501	Mon	May-08	

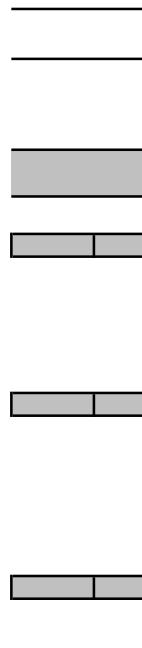
The course focuses on learning-by-doing. It involves a combination of lectures and extensive class discussions and student presentations, of materials from the textbook. My intent is to help you think through the issues in a given context, and to articulate your arguments in class discussions clearly and concisely. Students are expected to read the assigned material before coming to class, and to attend all classes. The course grades will be based on the weights shown below:

	Attendance/homework assignments/presentation/class participation	8%
Quiz 1	You are required to do ALL 5 quizzes. I will take the best 4 of 5 quizzes for your final grade. If you miss one quiz for a documented reason (business travel, or illness) then, for that quiz, you will get 50% of the average from all other gradeable assignments. You do not get any points if you miss a quiz and do not submit any documents in support of your absence. Also, you are allowed to miss one quiz only - and again, for documented reasons only.	8%
Quiz 2		8%
Quiz 3		8%
Quiz 4		8%
Quiz 5		8%
Mid-Term		30%
Final		30%
	Penalty for late submission of homework (each instance)	-3%
	Penalty for not being ready to present homework (each instance)	-2%
	Penalty for Cell Phone use / Internet use during class (each instance)	-5%

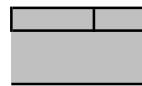
		Class Attendance, Participation, Professional Conduct										
		Points for class participation will be based on your punctuality, regular attendance, quality and extent of discussion in class, and during guest lectures. Class participation requires your studying class material in the class. I will also expect you to maintain professional conduct and decorum inside the class room. CELL PHONES, TEXTING, EMAILING, AND SURFING THE INTERNET ARE STRICTLY FORBIDDEN DURING HOURS - A VIOLATION CARRIES A PENALTY OF 5% FROM YOUR FINAL GRADE.										
		Please Note:										
		Grades will NOT be curved.										
		There are no make up quizzes or other provisions for extra credit.										
		If you need to review your tests/exams/quiz/homework, you need to schedule an appointment with me within one week of the grade for that assignment being posted.										
		I cannot reschedule any quiz/exam to a different date - please do not ask.										
		Grades will be based on the following point ranges which may differ from other courses:										
			Points Range	Letter Grade								
			0-74	F								
			75-76	C								
			77-79	C+								
			80-82	B-								
			83-85	B								
			86-89	B+								
			90-92	A-								
			93-100	A								
		Comet Creed										
		<i>This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same: "As a Comet, I pledge honesty, integrity, and service in all that I do."</i>										
		An example of such conduct includes not making illegal photocopies, or scanned copies, of the textbook.										
		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.										

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