Math 1309 9:00-11:00, 12:00-2:00 MTWTHF TBD

Instructor: Mrs. Judy Newell Office: 208A Clements Hall Hours: 11:00-12:00 in office 2:00-2:30 in classroom Phone: 214/768-3243 Email: jnewell@smu.edu

Math 1309 is a prerequisite to Business Statistics and Accounting I. If students do not complete this course before the next fall, they are not able to enroll in statistics or accounting and cannot enter the Business school in the spring of the next year as expected. Taking the class in May term instead of summer school allows them to pursue other opportunities in the summer such as a summer job, internship or study abroad.

I will hold class for 2 hours and then take a one hour break and hold class for another 2 hour session. This will allow the students to have lunch and look over what was covered in the morning before moving on. A typical class would include a 1.5 hour lecture followed by a group quiz in which I would circulate around the room answering questions. I followed this schedule in the past and it was very successful. The students all did very well in the class, far exceeding my expectations.

Book: College Mathematics for Business, Economics, Life Sciences and Social Sciences: Edition 12, Barnett, Ziegler and Byleen: Pearson

Grading: Quizzes 10% Tests 90%

Class Policies: 1. You are expected to be in class each day (and on time). Absences and tardies are unacceptable. Please remain in class until you are dismissed.

- 2. Please stay focused on this course—do not read other material, sleep, or talk while class is in session.
- 3. The academic work in this course will be subject to the guidelines of the SMU Honor Code.
- 4. There will be **no make up** of quizzes or tests. All work must be turned in on time -- no late work! Final Exams must be taken at the scheduled time.

Disability Accommodations: Students needing academic accommodations for a disability must first contact Disability Accommodations & Success Strategies (DASS) at 214-768-1470 or <u>www.smu.edu/alec/dass.asp</u> to verify the disability and to establish eligibility for accommodations. They should then schedule an appointment with the professor to make appropriate arrangements.

Religious Observance: Religiously observant students wishing to be absent on holidays that require missing class should notify their professors in writing at the beginning of the semester, and should discuss with them, in advance, acceptable ways of making up any work missed because of the absence.

Excused Absences for University Extracurricular Activities: Students participating in an officially sanctioned, scheduled University extracurricular activity will be given the opportunity to make up class assignments or other graded assignments missed as a result of their participation. It is the responsibility of the student to make arrangements for make- up work with the instructor prior to any missed class.

Test Dates: Test 1: May 19 Test 2: May 22 Test 3: May 27 Test 4: May 29 Test 5: May 30

Goals: This course satisfies the Quantified Formations Requirement

- 1. Students will be able to solve problems using algebraic, geometric, calculus, statistical and/or computational methods.
- 2. Students will be able to interpret and/or draw inferences from mathematical models, data, graphs, or formulas.

Unit I: Limits and The Derivative

Introduction to Limits Continuity Infinite Limits and Limits at Infinity The Derivative Basic Differentiation Properties Marginal Analysis in Business and Economics

Unit II: Additional Derivative Topics

Derivatives of Exponential and Logarithmic Functions Derivatives of Products and Quotients The Chain Rule Functions of Several Variables Partial Derivatives

Unit III: Graphing and Optimization

First Derivative and Graphs Second Derivative and Graphs L'Hopital's Rule Absolute Maxima and Minima Optimization

Unit IV: Integration

Antiderivatives and Indefinite Integrals Integration by Substitution The Definite Integral The Fundamental Theorem of Calculus Area between Curves

Unit V: Mathematics of Finance and Integration Applications in Business and Economics

Simple Interest Compound and Continuous Compound Interest Future Value of an Annuity; Sinking Funds Present Value of Annuity; Amortization Integration Applications in Business and Economics

01 ⁴	Data	May Term 2014 - Ma	Aggigsmont
Class #	Date	Section/Topic	Assignment
01	Thurs.	First Day of Class	Page 486 #5,13,17,21,27,43,47,51,67
	May 15	Policies/Procedures	
	9-11	10.1 Intro to Limits	
02	Thurs.	10.2 Infinite	Page 498 #1,5,9,13,17,21,27,31,33,35,41,47
	May 15	Limits/ Limits at	Page 509 #11,13,19,25,29,37,41,57
	9-11	Infinity	Quiz #1 Today!
		10.3 Continuity	
03	Fri.	10.4 The Derivative	Page 523 #7,11,21,63ab,65
	May 16	10.5 Differentiation	
	9-11	Properties	Quiz #2 Today!
04	Fri.	10.5 Differentiation	Page 532#1,5,9,13,17,27,29,33,37,39,43,47,49,51,69,71,73
	May 16	Properties	Page 548 #25,27,29,33
	12-2	10.7 Marginal	1 ugo 5 10 1125,21,25,55
	10 0	Analysis	Quiz #3 Today!
05	Mon.	Review for Test #1	Worksheet
05		Review for fest #1	WOLKSHEEL
	May 19		
0.0	9-11 M		
06	Mon.	Test #1	
	May 19		
	12-2		
07	Tues.	11.2 Derivatives of	Page 572 #1,3,5,7,9,11,13,15,17,19,21,27,29,31,33,35,
	May 20	Exponential and	37,39,41
	9-11	Logarithmic Function	Page 579 # 3,9,11,19,39,47,49,55,63,67
		11.3 Derivatives of	
		Products	Quiz #4 Today!
08	Tues.	11.3 Derivatives of	Page579 #7,21,23,25,43,51,57,69,83
	May 20	Quotients	Page 588 #19,25,31,33,35,39,41,47,53,55,57,59,63,69,79,81
	12-2	11.4 The Chain Rule	1 ugo c c c
			Quiz #5 Today!
09	Wed.	15.1 Functions of	Page 804 #1,5,9,49,51,53
0,0	May 21	Several Variables	8
	May 21 9-11	15.2 Partial	Page 812 #3,7,9,11,83,85,87
	9-11		
1.0		Derivatives	Quiz #6 Today!
10	Wed.	Review for Test #2	Worksheet on Webpage
	May 21		
	12-2		
11	Thurs.	Test #2	
	May 22		
	9-11		
12	Thurs.	12.1 1 st Derivatives	Page 626 #29,33,37,51,53,55,57,59,79,83
	May 22	and Graphs	Page 644 #7,11,15,17,25,29,31,33,35,37,89,91
	12-2	12.2 2 nd Derivatives	Page 657 #3,5,7,9,11,13
		and Graphs	Page 667 #3,5
		12.3L'Hopital's Rule	
		12.4 Curve Sketching	Quiz #7 Today!
13	Fri.	12.5 Absolute	Page 678 #17,19,23,33,39,41,47,57,61
	May 23	Extrema	Page 688 #11,17,25,27
	9-11	12.6 Optimization	1 ugo 000 111,17,23,27
			Quiz #8 Today!
1 /	Enc.		Quiz #8 Today!
14	Fri.	Review for Test #3	Worksheet on Webpage
	May 23		
	12-2		
15	Tues.	Test #3	
	May 27		
	9-11		

16	Tues. May 27 12-2	13.1 Antiderivatives and Indefinite Integrals 13.2 Integration by Substitution	Page 706 #1,7,13,15,19,23,41,47,51,55,65,83 Page 718 #1,5,9,15,19,25,27,31,35 Quiz # 9 Today!
17	Wed. May 28 9-11	13.5 The Fundamental Theorem of Calculus 14.1 Area Between Curves	Page 749 #5,11,13,25,29,33,49,51,61,69 Page 765 #7,13,19,37,41,49,63,65 Quiz #10 Today!
18	Wed. May 28 12-2	Review for Test #4	Worksheet
19	Thurs. May 29 9-11	Test #4	
20	Thurs. May 29 12-2	<pre>3.1 Simple Interest 3.2 Compound and Continuous Compound Interest 3.3 Future Value of an Annuity, Sinking Funds 3.4 Present Value of an Annuity, Amortization</pre>	Page 131 #41,43,45,47,55,57,61 Page 142 #27,29,35,37,45,53,55,57,67 Page 151 #21,23,25,27,33 Page 161 #21,23,25,31,37,39 Quiz #11 Today!
21	Fri. May 30 9-11	14.2 Applications in Business and Economics Review for Test #5	Page 778 #21,25,29,31,43,47 Worksheet Quiz #12 Today!
22	Fri. May 30 12-2	Test #5	