Math 1309
9:00-11:00, 12:00-2:00 MTWTHF
149 Dallas Hall

Instructor: Mrs. Judy Newell
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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.


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 register with Disability Accommodations & Success Strategies (DASS). Students can call 214-7681470 or visit http://www.smu.edu/Provost/ALEC/DASS to begin the process. Once registered, students should then schedule an appointment with the professor as early in the semester as possible, present a DASS Accommodation Letter, and make appropriate arrangements. Please note that accommodations are not retroactive and require advance notice to implement.

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. (See 2018-2019 University Undergraduate Catalogue)

Excused Absences for University Extracurricular Activities: Students participating in an officially sanctioned, scheduled University extracurricular activity should 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 with the instructor prior to any missed scheduled examination or other missed assignment for making up the work. (See 2018-2019 University Undergraduate Catalogue)

Test Dates:
Test 1: May 20
Test 2: May 23
Test 3: May 28
Test 4: May 28
Test 5: May 31
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: Mathematics of Finance and Additional Derivative Topics
   Simple Interest
   Compound and Continuous Compound Interest
   Future Value of an Annuity; Sinking Funds
   Present Value of Annuity; Amortization
   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 and Integration Applications in Business and Economics
   Antiderivatives and Indefinite Integrals
   Integration by Substitution
   The Definite Integral
   The Fundamental Theorem of Calculus
   Area between Curves
   Integration Applications in Business and Economics