

MATH 150 -CALCULUS I

Sections 010 – 012

Fall 2008

*“The aim of education is to teach us how to think, not what to think.”*

(Anonymous quote)

**Instructor:** Dr. Zenia N. Agustin

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**Office Hours:** MWF 11:00am–12:00pm, MW 3:00pm–3:30pm, or by appointment

**Text:** *Calculus*, Ninth Edition, by Dale Varberg, Edwin J. Purcell, and Steven E. Rigdon

**Course Prerequisites:** MATH 120 and MATH 125, with grades of C or higher

**Course Description:** This is a first course in the differential calculus of one variable. The concepts of limits, continuity, and derivatives will be introduced. Applications of derivatives will be discussed to reinforce the concepts. In addition, the concept of antiderivatives or integrals will also be explored. Chapters 1 – 4 and 6 of the textbook will be covered.

**Course Requirements:** Homework problems will be assigned at the end of each class meeting. These problems, however, will not be turned in. The first 15 minutes, at most, of each class meeting will be spent going over questions regarding homework problems. Quizzes will be given during the last 20 minutes of the class on the following dates:

Sept. 3, Sept. 12, Sept. 26, Oct. 3, Oct. 10, Oct. 24, Oct. 31, Nov. 7, Nov. 21, and  
Dec. 5.

There will be three exams to be given on Sept. 19, Oct. 17, and Nov. 14. A comprehensive final exam will be given on Dec. 15 from 2:00 pm to 3:40 pm.

**Note:** Make-up quizzes **may** be given only if there is a valid excuse, the instructor is notified **in advance**, and the appropriate documentation is presented. A missed exam **may** be replaced by a portion of the final exam if there is a valid excuse, the instructor is notified **in advance** and the appropriate documentation is presented.

**Mathematica Labs:** In these lab sessions, you will use the software *Mathematica* to perform numerical computations, symbolic manipulations, and graphics, both to enhance your understanding of Calculus as well as to enable you to deal with more complex problems. This lab meets on Wednesdays of even-numbered weeks, that is, Sept. 3, Sept. 17, Oct. 1, Oct. 15, Oct. 29, Nov. 12, and Dec. 3.

**Grading Policy:** Your final grade in this course will be determined as follows:

Quizzes	—	100 points
Lab	—	75 points
Three Exams	—	300 points
Final Exam	—	<u>125 points</u>
Total Points		600 points

The straight scale will be used in assigning your final grade, i. e., 90% – 100% is A, 80% – 89% is B, etc.

**Key Dates:**

1. Oct. 31 – last day to withdraw from the class without permission of adviser and instructor
2. November 21 – last day to withdraw from the class with permission of adviser and instructor

**Academic Integrity:** Anything that you submit must be your **own work**. Anybody caught passing off somebody else's work as his/her own will be dealt with accordingly. Any form of cheating will not be tolerated and will result in a grade of 0 for the quiz/lab/test, and in appropriate disciplinary action being initiated.

**Disability Clause:** Students needing special academic accommodations should notify the instructor no later than the end of the first week of class. You must have a documented disability and an ID CARD from Disability Support Services. Students with disabilities are encouraged to visit the SIUE Disability Support Services Office located in Rendleman Hall, Room 1218. An individualized accommodation plan can be developed according to each student's needs. Requests for services should be made two to four weeks prior to the date that the service is to begin.

### **Classroom Rules:**

1. The class meets from 9:30 am to 10:50 am. You are expected to arrive on time and stay for the duration of the class. Coming in late and/or leaving early disrupts the class. Should there be a need to leave the class early, inform the instructor in advance and sit near the door to minimize the distraction.
2. All cell phones should be turned off or put in silent mode during the class.
3. All electronic devices should be turned off during the class.

### **Tips for Succeeding in this Class:**

1. Come to class prepared everyday. You cannot afford to fall behind in this class.
2. Take detailed notes.
3. Read the textbook.
4. Work out homework problems and be prepared to discuss your solutions in class. You cannot learn Mathematics by osmosis.
5. Participate in class discussions. [**Mathematics is NOT a spectator sport.**]
6. Ask questions.
7. Make full use of my office hours. They are meant for you and my services are free.
8. Keep an open mind and a positive attitude.