MATH 150
Calculus I
Spring 2008

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Office Hours: 2-3pm MW, 1-2pm T, or **by appointment**
Textbook: *Calculus*, Ninth Edition by D. Verberg, E. Purcell and S. Rigdon
Prerequisite: *7 semesters of high school mathematics* or **MATH 120 (College Algebra) and MATH 125 (Pre-Calculus Mathematics with Trigonometry) with grades of C or higher**

Course Description: This course is the first course in the three-semester Calculus sequence that is expected of students in the engineering and mathematical sciences. You are expected to have a solid background in College Algebra and Pre-Calculus (with Trigonometry). The topics that will be discussed include fundamental concepts of calculus such as limits, continuity, and derivatives; the Mean Value Theorem and its applications; the Fundamental Theorem of Calculus; and integration techniques with applications. The mathematical software Mathematica will be used to supplement the instruction. You are **not permitted** to use **any calculator**. We will cover the following chapters in the textbook.

Chapter 1 Limits

Chapter 2 The Derivative

Chapter 3 Applications of the Derivative

Chapter 4 The Definite Integral

Chapter 6 Transcendental Functions

Course Requirements: There will be three in-class exams to be given on the following dates: **February 11th, March 19th, and April 18th**. There will be six in-class quizzes to be given on the following dates: **January 25th, February 6th, February 25th, March 7th, April 2nd, and April 14th**. A comprehensive final exam will be given on the regularly scheduled time **(Monday, May 5th, 2-3:40 p.m.)** during finals week. There will be lab exercises due at the end of each lab session. Homework/exercise problems from the textbook

will be assigned at the end of each class meeting. These problems will not be turned in. However, depending on the need of the class, problem sets will be assigned and be turned in for credit. The due date for problem sets will be announced in class.

Lab Requirements: You are expected to attend and participate in **all lab activities**. The exercises given during a lab session are intended to supplement the classroom instruction. At the end of each lab meeting, you are expected to hand-in the lab exercise. The lab meetings are on the Tuesdays of the even-numbered week.

Attendance and Make-up Policy I will not check attendance but you are **expected (read as "required")** to be in class **all** of the time. You will be responsible for any material(s) that you missed. Make-up exams and/or quizzes will be given only when accompanied by a valid excuse. **Proper documentation should be presented** and I should be notified in advance (either by phone, email or in person). Make-up exams and/or quizzes will be given at my discretion. Late problem sets and lab exercises will **not** be accepted.

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

Quizzes and Problem Sets	–	100 points
Lab Exercises	–	75 points
Three Exams	–	300 points
Comprehensive Final Exam	–	125 points

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

Academic Integrity: All submitted materials should reflect <u>your own work.</u> Any student caught cheating is subject to a grade of **F** and will be dealt with accordingly.

Disability Clause: Students needing special academic accommodations should notify me no later than the **end of the first week.** 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 Offices 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 2 to 4 weeks prior to the date that the service is to begin.

Classroom Rules: You are expected to **arrive on time** and **stay for the duration of the class**. If for some reason you need to leave class early, **I should be informed in advance** and you should **sit near the door** to minimize classroom distraction. **All electronic devices** should be **turned off** during the class.

Tips for Succeeding in MATH 150:

1. The office hours are for **you**. You are **encouraged and expected** to get help as soon as possible. Do not wait until hours before a test to seek help.
2. Do not hesitate to ask questions whether in-class or outside class.
3. **Read the textbook.**
4. Participate in class discussions and lab activities. Remember, **Mathematics is not a spectator sport.**
5. Keep a positive attitude and try to have fun!