CLASS SCHEDULE AND LOCATION:
Section 5: TTH, 2:30pm-3:50pm, Serra Hall 312
Section 6: TTh, 4pm-5:20pm, Serra Hall 312

OFFICE HOURS:
T, Th, 1:50pm-2:20pm
M, W, 5:30pm-7:30pm

OTHER FREE MATH TUTORING:
Math Center, Serra Hall 310
For tutoring hours click here

PREREQUISITES:
MATH 115 with a grade of C- or better, or pass Level 2 mathematics placement exam within the previous year. (Every semester)

TEXTBOOK:

DISABILITY:
For accommodations due to a disability please contact me within the first 2 weeks.

ACADEMIC HONESTY:
Cheating and plagiarism are in violation of USD’s academic integrity policy and are taken very seriously.

GENERAL COURSE EXPECTATIONS:
Regular attendance is necessary. If you happen to miss a class, it is your responsibility to catch up. Office hours can not be a substitute for missed classes and lectures. You will benefit the most from my office hours if you come prepared with questions.

Graded activities for this course will include quizzes, homework assignments and exam(s). The graded activities will take place on Thursdays (unless mentioned otherwise) and may include homework, quizzes, or both. The problems assigned for homework will be selected and graded at random. If some of the problems selected for grading are missing, you will receive zero points for those problems. Write clear and complete solutions to your homework problems. There will be two exams and one final exam. All exams will be closed-book and the final will be cumulative. Make-up quizzes or tests will not be given except of personal emergency situations such as hospitalization. Even under such circumstances, the instructor should be notified in advance about the absence.

Calculators are not mandatory and the use of the calculators will be limited as this course emphasizes the conceptual understanding more than the computational features of your calculator.

A student is supposed to spend at least two hours at home for each class hour. You will be struggling in this course if you are not consistent and do not study the material in depth. Don’t be discouraged if you have trouble understanding a passage the first time through. It is only to be expected that in technical reading there will be parts that you must reread several times. You are expected to read each lesson independently and regardless of how much of the lesson we will be able to cover in class. Understanding and applying the class notes is equally important to succeed in this course. Learning to cope well with technical reading is a skill that will be useful throughout your life.

If you are taking the pass/fail option, you must get at least a C- to pass. The last day to select that option is Wednesday, March 24. The last day to withdraw from the course without a W is Wednesday, February 3. The last day to withdraw from the course is Tuesday, April 6.

TENTATIVE COURSE CONTENT BY THEMES:
Introduction
Recommended Self-Review: Algebra and Functions, Chapters R, 1, and 2

Block I
The Derivative: Chapter 3
Calculating the Derivative: Chapter 4
Graphs and the Derivative, Chapter 5
Exam 1, Thurs., March 4

Block II
Applications of the Derivative, Chapter 6
Integration, Chapter 7
Further Techniques and Applications of Integration: Chapter 8
Exam 2, Thurs., April 22

Differential Equations: Chapter 10

http://home.sandiego.edu/~avelo/SurveyCalcSpring2010.htm
Final Exam:
Section 5: Thurs., May 20, 11am-1pm, Serra Hall 312
Section 6: Tues., May 18, 2pm-4pm, Serra Hall 312

COURSE LEARNING OUTCOMES:
- Understand the derivative as a limit, as the slope of a line, and as a rate of change.
- Calculate standard derivatives and use them to solve problems.
- Understand the definite integral as a limit of sums, approximate integrals, evaluate them using the Fundamental Theorem of Calculus, and use them to solve problems.
- Be able to apply mathematical concepts to problems outside of mathematics, set up the functions and equations to model such situations, and use the techniques of calculus to find relevant solutions.
- Write clear and complete solutions to mathematical problems, showing correct reasoning, precision in details, and a sense of communicating with the reader.

DETAILED COURSE CONTENT:
(will be developed during the semester on weekly basis)

Introduction
Recommended Self-Review: Algebra and Functions, Chapters R, 1, and 2

Block I
The Derivative: Chapter 3

Week 1
Limits, Sect. 3.1
Hmw. 1: Even #: 1-14, Odd #: 21-51, #78, 80 and 82

Continuity, Sect.3.2
Hmw.2: Even #: 1-28, 36
Classroom Problems: 21, 27, 30, 33

EVALUATION:
Your grades will be available on WebCT.
Tentative Point Distribution:

<table>
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<th>Activity</th>
<th>Points</th>
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</tr>
<tr>
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<tr>
<td>Final Exam</td>
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http://home.sandiego.edu/~avelo/SurveyCalcSpring2010.htm

1/26/2010