Course outline for Math 30P, Fall 2006

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Text: CALCULUS Early Transcendentals (fifth edition), by James Stewart.
Textbook companion site: http://www.stewartcalculus.com
Calculator: A graphing calculator is required.

Catalog Description: Selected topics in Precalculus. Introduction to Calculus including limits, continuity, differentiation, applications. Introduction to integration. Graphical, algebraic and numerical methods of solving problems. Graphing calculators or computers used. (In this 5-unit course, students are expected to spend 10 to 15 hours per week outside of class, studying and doing homework.)

Material to be covered: Appendix A, B, C, D and G at the end of our book; Chapter 1; Chapter 2; Chapter 3; Chapter 4.

Goals: To review selected topics in precalculus. To learn the concepts and techniques of differential calculus and use them in solving applied problems. To study limits, continuity, differentiation and applications of the derivative.

Pre-requisites: Satisfaction of ELM requirement and either a satisfactory score on the Calculus Placement Exam or a grade of C (or better) in Math 19. Students who did not master their algebra & trigonometry generally perform poorly on this course.

GRADING

Test 1 (Appendix & 1.1 through 1.3) 100 Points  Friday, September 01
Test 2 (Sections 1.4 through 2.2) 100 Points  Friday, September 15
Test 3 (Sections 2.3 through 2.8) 100 Points  Friday, September 29
Test 4 (Sections 2.9 through 3.5) 100 Points  Friday, October 13
Test 5 (Sections 3.6 through 3.11) 100 Points  Friday, October 27
Test 6 (Sections 4.1 through 4.6) 100 Points  Friday, November 17
Test 7 (Sections 4.7 through 4.10) 100 Points  Friday, December 01

Homework: Whether or not I will collect homework depends on whether I get a grader for this course. An announcement will be made in class. If so, homework will count 100 points total.

Cumulative Final Exam 300 Points: Monday, December 11, 945-1200

Students should spend a minimum of 12 hours per week outside of class on this course. We will discuss solutions to some homework problems, but not all. You will learn best if you think hard about each problem and write a partial solution before you see an answer. It is obvious that “you learn math by doing it and not by watching the instructor solve problems on the board”. You will notice that time spent on a homework pays off during a test, especially because many homework problems will show up on tests.

Make-up tests: If you must miss a test, contact me in advance (phone or email is fine.) If you have a good excuse, I may give you a make-up in my office hour the following week. Make-up tests will be significantly harder. The pace for this course is fast, so if you are left behind for some reason, be prepared to “catch up” at your own risk. An “Incomplete” grade will not be given on basis of poor performance.

Cheating: Cheating on any test, quiz or exam may result in an F grade in the course. On homework you can consult with other students on general matters. A copied homework is cheating. An answer that is not produced by your work will be considered as cheating. On tests, exposing your work so others can copy, is also cheating. Students are expected to be aware of the Academic Integrity Policy at SJSU, which can be found at the website: http://www2.sjsu.edu/senate/S04-12.htm