

Math 126A - Calculus III Summer 2005

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Course Website: www.math.washington.edu/~ndbs/Math126ASum05/126.html

Office Hours: W 9:40-10:40, Th 1:30-2:30 (both in the Math Study Center), and by appointment.

Teaching Assistant: Meng-Huo (Alan) Chen

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Office Hours: Fridays 11:30-1:30 in the Math Study Center

Texts: *Calculus: Early Transcendentals, 5th Edition* by James Stewart, and “Taylor Notes” by K. P. Bube, available on the Math 126 Materials Website:

www.math.washington.edu/~m126/

Note: The above website also contains copies of tests from previous quarters, which you may find useful in studying for the tests in this class. However, the Math 126 syllabus has changed recently, so some of the old material will not be reflective of the material we will cover this summer.

The Course

This class covers a variety of topics in calculus and analytic geometry beyond basic differentiation and integration. Topics include Taylor polynomials and infinite series, vectors, parametric equations and polar coordinates, vector functions, partial derivatives, and multiple integrals. We will begin with the Taylor Notes mentioned above, and then cover the following chapters in Stewart: 12 (§1-5), 10 (§1-3), 13, 14 (§1, 3, and 4), and 15 (§1-5).

Grades

The grade breakdown will be as follows:

Homework - 20%

Quizzes - 20%

Midterm - 30%

Final - 30%

Homework

Working through lots of problems is the only way to learn math. I will assign homework problems in lecture that will be due each Friday by 1:30. You may turn in your homework at the end of section on Friday or during Alan’s office hours. Late homework will not be accepted.

Quiz Section

Quiz section will be held on Fridays by your TA, Alan Chen. Most weeks you will have a 15-20 minute quiz. The quizzes will be closed-book, closed-notes, and you may not use a calculator. You should view the quizzes as an opportunity to test your knowledge of important concepts, and as preparation for the midterm and final. Some weeks you may have a group activity instead of a

quiz. During the remaining quiz section time, you will have a chance to ask the TA questions about homework problems.

Tests

There will be two in-class tests: a midterm exam near the middle of the quarter (tentatively scheduled for July 15), and a final exam on the last day of the quarter (August 19). On the exams, you will be allowed to use one two-sided 8.5" by 11" sheet of notes, but no textbooks or calculators.

Calculator Policy

Calculators will be needed for some class work and homework problems. You need a "scientific" calculator (with trigonometric, exponential, and log functions). For quizzes and tests, calculators will NOT be allowed, because we will be testing your mathematical reasoning and problem-solving skills, not how sophisticated your calculator is or how fast you can push its buttons.

Make-up Policy

There will be no make-up assignments or quizzes. However, when calculating your final grade, your lowest homework score and your lowest quiz score will be dropped, so you can miss one homework assignment and one quiz without penalty. Save your drops to use in case you get sick or have a personal obligation to attend during quiz section. Make-up exams will not be given. If you have an unavoidable, compelling, and well-documented reason for missing an exam, talk to the instructor. If possible, let me know of the situation in advance.

This syllabus may be subject to minor modifications. Check the class website for up-to-date information.