

MATH 203 SYLLABUS - CALCULUS FOR BUSINESS AND SOCIAL SCIENCES

Course Description: Basic concepts; differentiation and integration; applications to management, finance, economics and social sciences.

Prerequisite: Two years of high school algebra, one year plane geometry, and precalculus assessment.

Text: *Calculus & its Applications* by Goldstein, Lay, Schneider and Asmar. Note: We will use the on-line version. The access package is available at the UH bookstore.

Instructor: J. B. Nation, Keller Hall 406. Office hours MWF 10:30–11:20, and by appointment (956-4655). You may also see Matt Chasse in Keller 403E, TR 10:00–11:20.

Class: 11:30 MWF, Keller Hall 302.

Course Web Page: www.math.hawaii.edu/%7Ejb

Grading: Homework counts 25%, midterms and quizzes 45%, and the final exam is 30%.

Homework: There are three components to the homework grade.

- (1) Problems from MyMathLab. The use of this will be explained in class. The course ID is nation25364.
- (2) Worksheets will be given on many Fridays.
- (3) You must go to office hours at least twice during the semester. These visits count one homework assignment each.

Homework assignments and worksheets are due on Mondays. You are allowed 3 late assignments; subsequent late assignments will be given half credit. No assignment will be accepted more than 1 week late. You may work together on homework, but avoid straight copying.

Final Exam. The final exam is Friday, May 15 at noon in Keller 302.

Academic Expectations: Cheating on exams will not be tolerated, and will result in failure of the course. We reserve the right to pursue further remedies in aggravated cases.

Learning calculus requires both study and practice. The instructors cannot learn calculus for you, we can only guide your efforts. The departmental statement of academic expectations on our web page (www.math.hawaii.edu, under the tab Undergraduate) applies to all students.

Course Outline:

- (1) Introduction – Chapters 0, 1, 4
- (2) Derivatives – Chapters 1, 3, 4, 12
- (3) Applications of Derivatives – Chapters 2, 11
- (4) Several Variables – Chapter 7
- (5) Integration and the Fundamental Theorem of the Calculus – Chapters 6, 9
- (6) Differential Equations – Chapters 5, 10