

SYLLABUS: Fall Term 2014
SPP 513: CALCULUS FOR PUBLIC POLICY

TIME AND PLACE: Mon & Wed, 10:10-11:30; Room 1120 Weill. Discussion sections meet Fridays 10:10-11:30 in 1110 and 1120 Weill.

SCHEDULE CHANGES:The discussion session will be used for some tests and some regular classes. We will have a *regular class* instead of review sessions Friday September 5, Friday September 19, Friday October 3 and Friday November 7 at 1 pm. No class Monday September 29, Monday October 6, Monday October 13 (fall break), Wednesday November 5, and Wednesday November 26 (Thanksgiving Eve).

INSTRUCTOR: Carl P. Simon, Professor of Mathematics, Economics, Complex Systems, and Public Policy.(cpsimon@umich.edu)

PREREQUISITES: Permission of Instructor.

OFFICE: 4203 Weill. Phone:763-3074.

OFFICE HOURS: Mondays and Wednesdays before and after class in 4203 Weill.

GRADUATE STUDENT INSTRUCTORS (Room TBA) :

Lauren Burdette (laurenfb@umich.edu) Office hrs: TBA

Cyrus Jadun (jadunc@umich.edu) Office Hrs: TBA

TEXT: Required: Laurence Hoffman, Gerald Bradley, et al.: *Calculus for Business, Economics, and the Social and Life Sciences, Brief Version*. Eleventh Edition. (McGraw-Hill). **Brief version.** (The 10th edition can be used but beware that the exercise numbers are often different in the two editions.) You'll also need a **scientific calculator**, one with log and y^x keys, but not a graphing calculator.

TESTS: Tentatively, on Wednesday, October 1 (in class), Friday October 24 (in review session) and Friday November 21 (in review session). Comprehensive final exam Monday December 15 at 4-6pm (**no changes considered**). Old exams will be in Coursetools, but they should be considered as only rough guides to the types of questions that might be asked.

SYLLABUS: We will cover Chapter 1 (functions), Chapter 2 (derivatives: concept and techniques), Chapter 3 (applications of derivatives), Chapter 4 (exponentials and logarithms), Chapters 5 (integration), Chapter 6 (techniques of integration), and Chapter 7 (functions of several variables, partial derivatives) — about 4 classes per chapter. I will integrate the partial derivative discussions in Chapter 7 into each of the earlier Chapters to coordinate better with the other SPP core courses, especially microeconomics.

GRADING: Each of three tests: 20%; Final exam: 30%; Homework: 10%. Homework will be assigned at the completion of each section; it will be due the following Monday in class. Late assignments may not be graded. Participation in review sessions plays a role in borderline grades.

EXPECTATIONS: Courtesy: arrive and leave on time, no unnecessary talking, game playing, newspaper reading, etc. **Close your laptop and handheld computers and turn off your cellular telephones.** Keep up with assignments.

Honesty: any hint of dishonesty will be automatically referred to the Academic Judiciary or the Graduate Chairman.

COURSETOOLS Our C-Tools website will have announcements, syllabi, old tests and often homework problems. Check it regularly.