

**MATH 20B**  
Fall 2003

**Lectures:** MWF 2:00-2:50pm in York 2622.

**Instructor:** Peter Ebenfelt, AP&M 7432; phone: 822-4961; [pebenfelt@ucsd.edu](mailto:pebenfelt@ucsd.edu).

**Office hours:** TBA

**Sections:** Each student belongs to one of six sections. The sections meet with a TA (teaching assistant) every week on Tuesday (see schedule of classes for exact time and place for your section's meeting).

**Subject material:** The core of the course consists of (parts of) chapters 5–10 of *Calculus (Early Transcendentals, 5th Edition)* by James Stewart. (Only the single variable part of Stewart, also sold separately, will be needed for Math 20B.) However, the first few lectures will review some material from chapters 3–4. There are also **Supplementary Notes** to Stewart which can be downloaded or purchased from Soft Reserves. A more detailed (but tentative) schedule of lectures is available separately.

**Reading:** It is very important that you read the assigned material in advance of the lecture. This will be expected and it will enable you to maximize what you get out of the lectures.

**Exams and grading:** There will be two midterm exams given during the Friday lecture on **October 24** and on **November 21**. The first midterm will account for 20% of your course grade and the second will account for 25% of your course grade. The final exam will be held **Wednesday December 10, 3–6 pm**, and will be worth 40% of the course grade. There will be no makeup exams. The remaining 15% of your course grade will be accounted for by homework assignments to be handed in weekly. Students should buy blue books (available at the bookstore or general store co-op) in which to write their exam solutions.

**Calculus lab:** A lab for Math 20B students will be open Monday through Friday, time: TBA, in AP&M 2402. There will usually be at least 2 tutors/TAs available to help with homework, calculators, and course work. **We strongly recommend that you make use of the Calculus lab.**

**Calculators:** It is important that you bring your graphing calculator (preferably a TI-85 or TI-86) and the textbook to each lecture and section meeting. The calculator will be used as an aid in learning concepts, not just as a means of computation. Help with using TI graphing calculators will be available in the Calculus lab. (The use of calculators which allow symbolic manipulations, such as TI-89 or TI-92, is **not** permitted during exams.)

**Homework:** There will be 2 categories of homework— “individual recommended” and “group”. Group homework is to be turned in each week at your section meeting, on Tuesday. Group homework must be handed in by the group member who has the earliest section on Tuesday. Late homework will not be accepted. Individual recommended homework, except for the first assignment, is not to be turned in, but you are responsible for the subject matter covered in the assignments. The first assignment will be given at the first lecture on Friday, September 26. You should do it individually and turn it in at the first recitation section on Tuesday, September 30. After that, homework will be assigned in the Wednesday lecture, being due the following Tuesday. **It is of great importance that you make every effort to complete the homework assignments, and that you seek help with problems you have not been able to handle.** You can get help with homework assignments in the calculus lab. A student solutions manual (available in the bookstore) has complete solutions for all of the odd-numbered problems in the text. Solutions to the group homework problems can be purchased from Soft Reserves (a few days after the due date).

**Groups:** Ideally, groups should consist of 2 or 3 individuals, but they may have from 1 to 4 members. The TAs will help you form your groups during the first recitation section meeting. Members of a group must have the same instructor; they should be registered for the same recitation section, if possible. Group homework should be handed in with the names **and section numbers** of the group members listed on it. Only those who contributed to the group effort should be listed.

**Webpage:** Course information, including homework assignments, will be available, starting the second week of classes, at the website: <http://math.ucsd.edu/~pebenfel/math20b.html>