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Office hrs. M,W,Th 8:30-9:15, 11:40-12:00 (& by appointment).

Text: Goldstein, Lay & Schneider; Calculus and Its Applications 11th edition;
& other material to be handed out.

Course Description: MATH 1252 is the second semester of the two semester Calculus and Differential Equations Sequence for Biology and Life Science Majors. The course will cover chapters 6 through 11 of the text roughly as a (re)introduction to Integral Calculus, in order to get quickly back to differential equations commonly used by biologists, which form the goal of the course. This is a totally innovative Mathematics for Biologists course.

Prerequisites: The course material in MTH U151.

Tutoring: Math Tutoring Center is in 540 B Nightingale. Tutoring hours will be Mon-Wed 10am-9pm, Thurs 10am-6pm and Fri 10-1. The full schedule will start Monday, Sept 21. There will be some abbreviated hours on Sept 16-18, but the times haven't been determined yet.

Grading: Tests $\leq 60\%$ of final grade. Final Exam (2 hrs.) $\geq 40\%$ of final grade.

Homework: You are responsible for doing the problems when assigned. Homework is not collected or graded, but discussion of the homework will form the first part of the following class.

Class participation: Encouraged but not required. If you are late coming in, try not to disrupt the class. If you must leave early see me before class. All cell-phones must be turned off.

Quizzes: Quizzes (30-45 min.) on Thursdays, unless specified otherwise. No make-ups; excuses are only for valid reasons, and the grade of the following quiz will be assigned to the missed one.

Calculators: A scientific calculator is required. A graphing calculator is useful but not required.

Closing remarks: Please do the homework when assigned. Don't fall behind.

The following are general departmental statements: It is your responsibility to be aware of any changes the instructor may make to the syllabus as they are announced in class. Students are responsible for all information given when they are absent. If you have a concern about the course or the instructor that is not or cannot be resolved by speaking with the instructor, the next step is to speak with Professor Solomon Jekel (Undergraduate Director), 525LA, x5639, jekel@neu.edu. It is University policy that no grade, including an incomplete, can be changed after one year. Exceptions must be authorized by the Academic Standing Committee. All students without legitimate conflicts (approved by the instructor) will take the final exam at the scheduled time. GOTO: <http://www.registrar.neu.edu/finexsched.html> to see the dates of your final exam.

We shall cover parts of Chapters 6-12 of the book plus material that will be distributed later.

Ch 6 - The Definite Integral (unless specified the odd numbered problems.)

§6.1 Antidifferentiation. Pg 324 # 2, 3, 5, 7, 11, 23, 25, 27, 33, 35, 37, 39, 43, 49, 60

§6.2 Areas and Riemann Sums. Pg 333 # 2 333 1, 2, 5, 9, 15, 19, 25, 26

§6.3 Definite Integrals and the Fundamental Theorem. Pg 345 # 1-13, 19, 25, 27, 29, 31, 33

§6.4 Areas in the xy-Plane. Pg. 354 # 1, 3, 5, 9, 11, 17, 19, 23, 25

§6.5 Applications. Pg. 363 # 1, 3, 5, 7, 8, 9 Supp. Prob. Pg. 366 #45, 67

Problems for Chapters 7-12 and handouts to follow. A general outline of the course will be posted on Blackboard. Changes and modifications will be announced in class.