

Instructor: David Emerson Session: May 22-June 28, 2013
Office: BP 216 Class: Tues. Wed. Thurs. 10:00 a.m. - 12:15 p.m.
E-mail: David.Emerson@tufts.edu Office Hours: Wednesday. 12:15-1:45 or by appt.

Course Website

For written assignments, exam reviews, and announcements: <http://portal.mypearson.com/MyMathLab> Website

For online Homework: <http://portal.mypearson.com/>

Required Materials: *MyMathLab Student Access Kit* from Addison Wesley (Pearson), which is available online at www.pearsonmylab.com. You can also buy the Access Kit packaged with a hardcopy of the textbook, *Calculus: Early Transcendentals OR Multivariable Calculus*, by William L. Briggs and Lyle Cochran, Addison Wesley (Pearson), 2010, from the bookstore. The Student's Solutions Manual is available, but not required.

Exams and Grading: The full department policy on exams and grading can be found on the department website: <http://math.tufts.edu/>. Select *Exams and Grading Policy*. Students found violating this policy will receive an F in the course and be reported to the Dean of Students.

Disability Services: If you are requesting an accommodation due to a documented disability, you must register with the Disability Services Office at the beginning of the semester. To do so, call the Student Services Desk at 617-627-2000 to arrange an appointment with Linda Sullivan, Program Director of Disability Services.

Homework: There are two types of homework assignments. You will get a final score for each of these sets and your total homework score will be the average of these two final scores. Therefore, both assignments are weighted equally.

1. Online homework is assigned for each lecture, through the MyMathLab website. See hand-outs for more information and see the MyMathLab codes below to register for your section. Assignments for classes up to and including Thursday, May 23 will be due at 11:59 pm on Tuesday, May 28. All subsequent assignments will be due at 11:59 pm on the day of the following lecture. Each assignment is weighted equally, but your lowest three scores will be dropped.
2. Approximately one handwritten problem is assigned per class and should be turned in the next class. These will be graded as if it were an exam question. The assignments can be found under the Homework tab on the Mymathlab course website. The first assignment will be due on May 28. Your lowest score will be dropped.

The written problems will be collected using a folder handed out in class. Please mark your HW with an identifier. Please write it as clearly as possible and make sure to tell your instructor well before the end of the semester what your identifier is so credit associated with it can be counted towards your course grade.

Feel free to use your name as your identifier, but expect that unless you are told otherwise, the homework folders are handed off between instructor and grader in a way that does

not ensure their confidentiality (usually by way of drawers in the lobby of the Bromfield-Pearson building). Your educational record is privileged information under the federal Family Educational Rights and Privacy Act (FERPA), and using your name as identifier means that you opt out of being guaranteed the confidentiality of the information on and in your homework folder.

For both types of homework, you are encouraged to collaborate with other students and to check your solutions using the solutions manuals. However, you must submit your own solutions using your own MyMathLab account for the online homework and in your own writing for the weekly assignment.

MyMathLab course ID: emerson65914.

Grades: Suppose that H is your homework score ($H = \frac{1}{2}(O + W)$, where O is your online homework score and W is the written assignment score), L is the lower of your two midterm exam scores, T is your other midterm exam score, and F stands for your final exam score. Your course average is the larger of these two numbers:

$$.2 L + .3 T + .4 F + .1 H \quad \text{or} \quad .3 L + .3 T + .3 F + .1 H.$$

If you miss a midterm exam for a reason accepted as legitimate by the Mathematics Department, as the department does not give makeups, your course average would become the larger of these two numbers:

$$.25 T + .65 F + .1 H \quad \text{or} \quad .4 T + .5 F + .1 H.$$

The course average is converted into a letter grade according to the conversion chart given on the Mathematics Department website at <http://math.tufts.edu/>.

Learning Objectives: This course satisfies Learning Objective 1a as listed at <http://ase.tufts.edu/faculty-committees/assessment/math.htm>.

Course Schedule

Lecture	Date	Sections	Topic
1	5/22	11.1, 11.2, 11.3	Introduction to Vectors, Dot Products
2	5/23	11.4, 11.5	Cross Products, Lines and Curves
3	5/28	11.6, 11.7	Calc. of Vector-Valued Functions, Motion & Arc Length
4	5/29	12.1, 12.2	Planes & Surfaces, Quadric Surfaces & Graphs
5	5/30	12.4, 12.5, 12.6	Partial Derivatives, Chain Rule, Directional Deriv.
Exam 1: Friday, 5/31, 10:00-11:20			
Covers up through 12.4			
6	6/4	12.6, 12.7	Gradients, Tangent Planes
7	6/5	12.8	Max/Min Problems
8	6/6	12.9, 13.1	Lagrange Multipliers, Double Integrals
9	6/11	13.2, 13.3	Double Integrals, Double Integrals (Polar)
10	6/12	13.4	Triple Integrals
11	6/13	13.5	Triple Integrals (Cylindrical), Triple Integrals (Spherical)
Exam 2: Friday 6/14, 10:00-11:20			
Through Section 13.4 (Cumulative)			
12	6/19	14.1, 14.2	Vector Fields & Integrals, Line Integrals
13	6/20	14.3	Conservative Fields
14	6/21	14.4, 14.5	Green's Thm & Div, Curl
15	6/25	14.6	Surface Integrals
16	6/26	14.6, 14.7	Surface Integrals, Stokes' Theorem
17	6/27	14.8	Divergence Theorem & Miscellaneous
Final Exam: Monday, 7/1, 9:00-11:00			
Cumulative			