

- **Course description.** Functions of several variables, limits, continuity, differentiability, Taylor's Theorem, Continuous Optimization, Lagrange Multipliers, Implicit Function Theorem. Change of variable in multiple integrals, Jacobian Line integrals, Greens theorem. Vector fields, gradient fields, divergence, curl. Spherical and cylindrical coordinates. Taylor series in several variables. Surface integrals, Stokes theorem. Gauss theorem and its applications. Conservative fields.
- **Course grading.** There will be five assignments, due roughly every two weeks, counting a total of ten percent of your final grade. There will be two midterms, and the higher midterm grade will count forty percent towards the final grade. The final examination counts towards half of your final grade.
- **Assignments.** Homework assignments are to be handed in at the TA drop boxes by noon on Fridays, roughly once every two weeks. No extensions are granted. The assignments are taken seriously, and will count ten percent towards your final grade.
- **Lecture Notes.** Apart from the book by Marsden and Tromba, I will post lecture summaries shortly before or after each lecture. These summaries are not a substitute for attending lectures, and some examinable material covered in class will not be in these summaries. At various times sheets of formulas will be posted.
- **Academic Integrity.** You are reminded that it is your responsibility to know the rules of conduct and exams. Follow the links on the course web page to look up policy.
- **Course schedule.** On the next page is the course schedule. Homework is due on red days, and midterms are in class on the blue days. This schedule is a rough guide, and slight deviations from it are possible, if not likely.
- **Help.** Consult the instructor, academic advisors for help and attend office hours and sections. Links for additional help and calculus labs are linked on the website.

Course Schedule

Week 1	March 27	March 30	April 1
	César Chavez	§2	§2
Week 1-2	April 3	April 6	April 8
	§2	§2	§3
Week 2-3	April 10	April 13	April 15
	§3	§3	§3
Week 3-4	April 17	April 20	
	MIDTERM 1	§4	
Week 4-5	April 22	April 24	April 27
	§4	§5	§5
Week 5-6	April 29	May 1	May 4
	§5	§5	§6
Week 6-7	May 6	May 8	May 11
	§6	§6	§7
Week 7-8	May 13	May 15	May 18
	§7	§7	MIDTERM 2
Week 8-9	May 20	May 22	May 25
	§7	§7	Memorial Day
Week 9-10	May 27	May 29	June 1
	§8	§8	§8
Week 10-11	June 3	June 5	
	REVIEW	REVIEW	