Math CS 120 Syllabus

Spring 2011

Lecture: MWF 11:00–11:50, The Old Little Theater(494), Rm. 164B


Materials to be covered: Chapters I-III, which presents the following topics:
   Elementary topology in $\mathbb{R}^n$, directional derivatives and the differential, the chain rule, maxima and minima, manifolds and Lagrange Multipliers, Taylor’s formula, classification of critical points, the Multivariable Mean Value Theorem, the Inverse and the Implicit Mapping Theorems, manifolds in $\mathbb{R}^n$.

Instructor: Guofang Wei, South Hall 6503
   email: wei@math.ucsb.edu

Office hours: MTW 9:30-10:30am or by appointment

Homework: Homeworks are assigned each week on Wednesday (Also available on my web page http://www.math.ucsb.edu/~wei) and due Wednesday of the following week at the end of the lecture. The checked homework will be returned to you in class.

Quiz: There will be about 6 pop up quizzes in class.

Reader: Nathan Saritzky

Evaluation: The students will be evaluated according to the following criteria: Regular attendance to classes, number of assignments completed, quality of the assignments, understanding of the mathematical material, participation in class.

References: Apostol, T.: Mathematical Analysis, Addison Wesley
   Duistermaat, J.J. and J.A.C. Kolk: Multidimensional Real Analysis I, Differentiation, Cambridge University Press