

Here is my syllabus for Ma 1c, practical track.

This course is a continuation of Ma 1a (one variable calculus). It focuses on vector calculus, which studies the functions of several variables and vector-valued functions. Many topics we will cover are generalizations of one variable calculus, including differentiation and integration, but there are completely new phenomena, and linear algebra will play an important role here. We will eventually discuss the Stokes type theorems, which unify several seemingly different types of integrals.

Required Textbook:

J. Marsden & A. Tromba, Vector Calculus, 6th edition, Freeman 2012.

ISBN-10: 0-7167-4992-0

ISBN-13: 978-0-7167-4992-9