Advanced Calculus (MA 1132)

Instructor: Dr. Petronela Radu
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Schedule of classes and tutorials:

- Tutorials
  1. Tuesday 5:00 pm - 6:00 pm (EELT3)
  2. Wednesday at 10:00 (Bot)
  3. Wednesday at 11:00-12:00 (EELT3)

- Lectures on Thursday 10:00 -11:00 and 2:00 - 3:00 both in McN3

Material covered: A key goal in this module is to introduce the most frequently used parts of calculus, up to multiple integrals, and to develop a familiarity with the most common techniques used in calculations.

We will build on MA1123 where limits of functions, continuity, derivatives, integrals and techniques of integration were discussed (in one variable). From linear algebra MA 1111 we will rely on familiarity with vectors and how to deal with lines and planes in space.

Some older notes for the course are posted at
http://www.maths.tcd.ie/~richardt/MA1132/index.php

Tutorials: Solutions for the tutorials will be posted by the following week at http://www.math.unl.edu/~pradu3

Textbook: We will not follow closely any particular textbook, but you may find some of the material covered in the Calculus, Late Transcedental text by H. Anton, Irl C. Bevins, S. Davis.

Exams: There will be two in-class exams (tentative dates: Thursday, February 21, and Thursday, April 4). There is no annual exam in this class.

Marking policy: 50% tutorials and 25% for each of the exams.