

# Math 226, 2017W Term 1

## Advanced Calculus I (Honours)

### Syllabus

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#### Instructor Information

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**Instructor:** [Brian Marcus](#)

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**Office:** Math Building, Room 218

**Office Hours:** W 1:30 - 3:00, Th 11:30 - 1:00 and by appointment

**Phone:** 822-3262

#### Course Information

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**Class time:** MWF 11:00 - 12:00

**Class location:** Buchanan 202A

**Course web page:** <http://www.math.ubc.ca/~marcus/Math226> will be updated throughout the term.

**Text:** Adams and Essex: Calculus: Several Variables. Pearson, 9th Edition

#### Course Description :

This is an HONOURS course. The emphasis will be on ideas and computation, but students will also be expected to understand and write mathematical proofs at an elementary level.

Topics: Differential and Integral Calculus of functions of several variables: Vectors and Geometry, Partial Derivatives and Differentiability, Applications of Derivatives, Multiple Integrals.

Course material will mostly be taken from Chapters 10,12,13,14 of the text.

**PRE-requisite:**

One-variable calculus (68% in Math 121 or 80% in Science 1, Math 101, 103 or 105);

**CO-requisite:**

Linear algebra (Math 223, 221, 152)

**Evaluation**

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The course mark will be based on weekly homework assignments (15%), two midterms (total of 35%), and a final exam (50%). This percentage distribution is approximate.

**Homework**

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Homework assignments will be assigned weekly and due on Fridays.