Acknowledgement

UBC's Point Grey Campus is located on the traditional, ancestral, and unceded territory of the xʷməθkʷəy̓əm (Musqueam) people. The land it is situated on has always been a place of learning for the Musqueam people, who for millennia have passed on in their culture, history, and traditions from one generation to the next.

Course Information

Course Title	Course Number	Webpage	Credit Value
Real variables	MATH 320	Through Canvas	3

First day of teaching: Sep 07; Last day of teaching: Dec 07.
University closed: Sep 30, Oct 10 and Nov 11; Midterm break: Nov 09-11.

Lectures are on MWF 9:00am-9:50am in Chemistry C124

Prerequisites

Either
(a) a score of 68% or higher in MATH 226 or
(b) one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254
and a score of 80% or higher in MATH 220.

Learning Materials

The course material is defined by what is covered in the lectures and homework assignements. We will follow closely the classic textbook:
Principles of Mathematical Analysis by Walter Rudin.

Topics to be covered include:

1. The real number field
2. Basic topology; metric spaces; compactness
3. Sequences and series
4. Continuity
5. Differentiability

Proofs are integral to — and in fact an essential part of — the course material.

Students are encouraged to attend office hours.

Assessments of Learning and Course Grade

There will be

1. Weekly homework assignments
2. One midterm exam
3. One final exam

The assignments are due Fridays at 9:00. Homework should be submitted online using Canvas, and late homework is not accepted. The lowest homework score will be dropped.

The midterm exam is held in-class on Friday, October 21st from 09:00-10:00.

The course grade will be given by

$$0.2G_H + 0.25G_M + 0.55G_F$$

where G_H is the average grade of the assignments, G_M is the grade of the midterm exam and G_F is the grade of the final exam.

Syllabus Policies

General UBC and Mathematics Department policies, for example on missed exams, can be found here.

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