

Faculty of Science Course Syllabus Winter 2021 (revised October 2020)**Department of *Mathematics & Statistics****MATH 2505**Introductory Analysis**Winter 2020/2021***Instructor(s):** Xiaoning Bian *bian@dal.ca* *Office hours: Mondays 12-1, Fridays 3-4***Lectures:** *Synchronous, recordings of synchronous lectures will be posted*

Course Description

This course is for honours students and other serious students of mathematics. Topics include: the axioms for the real number system, geometry and topology of Euclidean space, limits, continuity, differentiability, the inverse and implicit function theorems.

Course Prerequisites*MATH 2001.03***Learning Objectives**

- 1) Understanding of basic definitions, major theorems in introductory analysis, and understanding of basic concepts and ideas used in developing these results.*
- 2) Ability to reprove major theorems learned, and to prove new claims using them.*

Course Materials

- Textbook: Understanding Analysis - Stephen Abbott, 2nd ed.*
- Lecture videos and lecture notes on Brightspace*

Course Delivery (online)

- On Brightspace & Collaborate Ultra*
- Synchronous sessions: TRF 12:35-13:25, attendance is recommended, sessions will be recorded*

Office hours hold by Teaching Assistant*Wednesdays 10:30-11:30, Thursdays 4-5***Course Assessment***Test 1: 20% Test 2: 20% Test 3: 20% 10 Assignments: 40%***Important Dates***TESTS in class on Tuesdays Feb 9, Mar 16, and Thursday Apr 8**ASSIGNMENTS due each Tuesday 11am (except the week of study break, and the weeks of Test 1 & 2)*

Conversion of numerical grades to Final Letter Grades follows the Dalhousie Common Grade Scale

A+ (90-100)	B+ (77-79)	C+ (65-69)	D (50-54)
A (85-89)	B (73-76)	C (60-64)	F (<50)
A- (80-84)	B- (70-72)	C- (55-59)	

Course Policies on Missed or Late Academic Requirement

- *No late assignments will be accepted. There will be no make-up assignments under any circumstances.*
- *Tests will be held in class on the dates listed (or in the event of university closure, on the next class day the university is open). Make-up test is available if a Student Declaration of Absence is filed.*
- *Any student suspected of cheating (e.g. copying other's solutions, using solutions from the internet, having someone answering your question) will be required to pass an oral exam to demonstrate a full understanding of the work submitted.*