

MATH 364
Analysis I
Fall 2019

Instructor*: _____

Office/Tel No: _____

Office Hours: _____

*Students should get the above information from their instructor during class time. The instructor is the person to contact should there be any questions about the course.

Text: *Introduction to Real Analysis* by Frank Dangelo and Michael Seyfried, published by Brooks/Cole (on reserve at Webster Library). Scanned chapters accessible from the Moodle site.

Suggested References: *Introduction to Real Analysis* by William F. Trench; offered online by the American Institute of Mathematics (AIM).

Available online:
<http://aimath.org/textbooks/approved-textbooks/trench/>

Notes on Real Analysis by L. Larson.

Available online:
<http://www.math.louisville.edu/~lee/RealAnalysis/IntroRealAnal.pdf>

Calculus, 3rd Edition, by M. Spivak

Assignments: Given approximately weekly. **No late assignments will be accepted.** You should submit your assignments handwritten on paper, not electronically, and provide complete arguments. **Not all assigned problems will be marked.** Solutions to assigned problems will be posted on Moodle.

Students must follow the University's policy on Academic Integrity:
<http://www.concordia.ca/students/academic-integrity.html>

Midterm Test: There will be a 75 minute midterm test in the 7th or 8th week of classes.
There will be no make-up midterm test.

Final Exam: To be scheduled by the exams office. Students should plan to be present for the entire exam period and are responsible for finding out the time and location of the exam when it is announced. Any conflicts or other problems should be reported to the exams office in a timely manner.

Grading: 10% Assignments, 30% Midterm Test, 60% Final Exam
OR
10% Assignments, 90% Final Exam

Since the grading scheme for this course includes graded assignments, a reasonable and representative subset of each assignment may be graded. Students will not be told in advance which subset of the assigned problems will be marked and should therefore attempt all assigned problems.

Topics: Time frame is approximate and is meant to include the midterm test.

Weeks	Topics	Chapters
1-3	Elements of Proofs and Set Theory. The Real Numbers.	Chapters 1-2
4-6	Sequences	Chapter 3
7-9	Limits of Functions and Continuity.	Chapter 6
10-11	Derivatives	Chapter 7
12	Elements of Topology	Chapter 5
13	REVIEW	

Academic Integrity and the Academic Code of Conduct

This course is governed by Concordia University's policies on Academic Integrity and the Academic Code of Conduct as set forth in the Undergraduate Calendar and the Graduate Calendar. Students are expected to familiarize themselves with these policies and conduct themselves accordingly. "Concordia University has several resources available to students to better understand and uphold academic integrity. Concordia's website on academic integrity can be found at the following address, which also includes links to each Faculty and the School of Graduate Studies: concordia.ca/students/academic-integrity." [Undergraduate Calendar, Sec 17.10.2]