

Mathematics 220, Term I, 2017

Lecture times and locations:

- Section 101: MWF: 12:00 pm to 1:00 pm in MATX-1100 (Seckin Demirbas)
- Section 102: MWF: 12:00 pm to 1:00 pm in LSK-200 (Greg Martin)
- Section 103: MWF: 10:00 am to 11:00 am in LSK-460 (Jingyi Chen)
- Section 104: MWF: 10:00 am to 11:00 am in WESB-201 (Greg Martin)
- Section 105: MWF: 2:00 pm to 3:00 pm in LSK-460 (Jingyi Chen)
- Section 106: MWF: 2:00 pm to 3:00 pm in CHEM-C126 (Seckin Demirbas)

Prerequisites

- a score of 64% or higher in one of MATH 101, MATH 103, MATH 105, SCIE 001, or
- one of MATH 121, MATH 200, MATH 217, MATH 253, MATH 263.

Topics: The main aim of the course is to learn how write clear and correct mathematical proofs. It provides the gateway to more advanced mathematics. More precisely, we will cover

- Sets: Section 1.1 - 1.8
- Logic: Section 2.1 - 2.11
- Proofs: Section 4.1 - 4.4 , Section 5.1 - 5.2 , Section 6.1 - 6.3, Section 7.1 - 7.4, Section 8.1 - 8.4, Section 9.1- 9.3
- Induction: Section 10.0 - 10.2
- Relations: Section 11.1 -11.5
- Functions: Section 12.1- 12.6
- Cardinality of Sets: Section 13.1- 13.3
- Counting: 3.1 - 3.4 (If there is time)

Text: Richard Hammack - Book of Proof (2nd Edition).

Grade Policy: 20% homework (drop the lowest score) + 30% midterm + 50% final exam. The grades may be slightly scaled at the end of the course.

Exams: There will be one 50 minutes midterm exam which is in class and closed book on October 16 (Monday). The date of the final exam (2.5 hour) will be announced by the Registrar later in the term.

Homework: Assignment will be posted weekly at <http://www.math.ubc.ca/~jychen>. Problem set will be collected on each Friday (except the Friday in the first week). Late homework will not

be accepted. Copying solutions from another student, from the web or from any other source, and turning them in as your own is a violation of the Academic Code.

Policy on missed assignments and the midterm exam: Students who are unable to hand in a homework due to a medical or equivalent excuse may have that homework not count towards their final grade. Missing a midterm exam or a homework normally results in a mark of 0. Exceptions are granted only with prior consent of the instructor or due to a medical emergency. In the latter case, the instructor must be notified within two working days of the missed exam and presented with a doctor's note immediately upon the students return to UBC. If an exception is granted for a missed test, the final exam will be used to make up that portion of the grade.