

MATHEMATICAL PROOF, MATH 220

1. GENERAL INFORMATION

- Course: Math 220, Winter Term 1, Sept-Dec 2026.
- Textbook: <https://personal.math.ubc.ca/~PLP/>

2. SYLLABUS

Sets and basic definitions: PLP 1

Logic, truth tables etc: PLP 2

Direct Proofs: PLP 3

Contrapositive Proof: PLP 5

Logic, quantifiers, negation, disproof, existence proof (brief discussion) PLP 6

Induction PLP 7

Sets PLP 8

Relations PLP 9

Functions PLP 10

Proof by contradiction PLP 11

Cardinality, infinite sets PLP 12

3. HOMEWORK AND QUIZZES

The weekly homework will be posted on Canvas. There are also Quizzes every week!

4. MIDTERM

There will be one midterm in class. The date will be posted on Canvas. The date may be different from one section to the other.

5. GRADES

- 5% weekly short quizzes on Canvas
 - 20% Homework - one each week
 - 25% Midterm - Date TBD
 - 50% Final Exam - in the December exam period.
- You must achieve 40% in the final in order to pass the class.