

## MATHEMATICAL PROOF, MATH 220

### 1. GENERAL INFORMATION

- Course: Math 220, Summer Term 1, May-June 2026.
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- Hours and location.  
Tue Thu Fri - 11:00 a.m - 1:00pm  
Wed - 11am-12pm  
in MATX1100
- Textbook: <https://personal.math.ubc.ca/~PLP/>
- It is important that you join PIAZZA especially since Canvas is down.

[https://piazza.com/ubc.ca/summer2026/math\\_v2209212026ss](https://piazza.com/ubc.ca/summer2026/math_v2209212026ss)

### 2. WHAT TO DO DURING THIS FIRST WEEK OF CLASS WITHOUT CANVAS:

- Joint Piazza, see above. The passcode will be sent to you per email.
- Show up in class.
- Keep up with the videos related to the course. This week, please watch the videos related to text-chapters 1 to 4 <https://personal.math.ubc.ca/~PLP/auxiliary.html>.

### 3. 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

### 4. HOMEWORK

The weekly homework will be posted on Canvas. More info there hopefully soon. Until Canvas is available, I will send you the homework via another channel.

### 5. MIDTERMS

The two midterms dates. May 27 and June 10 (in class).

## 6. GRADES

For everybody, the final grade will be computed as the maximum of the following:

Homework 20%, Midterms 15%+15%, Final exam 50% or  
Homework 20%, Best midterm score 20%, Final exam 60%.

For example, the grades of those students who miss a midterm will be computed by the second method. This should not encourage you to skip the first midterm out of convenience (if you happen to have to miss the second one, you would then get zero to both!). For your information, the average of the first 220 midterm is usually a bit higher than the average of the second one. So please show up!