

## MATHEMATICAL PROOF, MATH 220

### 1. GENERAL INFORMATION

- Course: Math 220, Summer Term 1, 2018.
- Instructor: Rachel Ollivier [ollivier@math.ubc.ca](mailto:ollivier@math.ubc.ca)
- Course website: includes syllabus and additional information  
<http://www.math.ubc.ca/~ollivier/Math220.html>
- Text: Book of Proof (2nd edition), by R. Hammack. You may purchase a physical copy of this book at the bookstore, or you may access and download the book for free at the <http://www.people.vcu.edu/~rhammack/BookOfProof/>. The sections we will cover are listed below.

### 2. GRADES

Grades will be computed as the maximum of the following:

- Homework 10%, Midterms 20%+20%, Final exam 50% or
- Homework 10%, Best midterm score 20%, Final exam 70%.

The grades of those students who miss a midterm will be computed by the second method.

### 3. SYLLABUS (SUBJECT TO LATER ADJUSTMENTS)

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