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## MHF 3202 (Section 04G2) Summer A

### Sets and Logic

#### Time and Location

MTuWThF Period 3 (11:00-12:15) ONLINE

#### Office hours

TBA

#### Text

'*How to Prove It*' by Daniel Velleman (second edition)

#### Topics and Policies

The primary aim of this course is to develop the notion of a formal proof in mathematics.

(1) We shall begin by learning a new language: the first two chapters of the adopted text

introduce some of the fundamentals of mathematical logic and set theory.

(2) We shall then examine the idea of a mathematical proof: the third chapter of the text

assembles an array of techniques for the construction of a formal proof.

(3) Finally, we shall put these techniques to use in contexts selected from the last four chapters

of the text: I have some specific choices in mind, but am also open to choices suggested by the class.

We shall spend approximately two weeks on each of these three parts.

Homework questions

will be assigned and discussed, but will not go towards grade. At (or near) the end of each

even-numbered week of semester, there will be a written test on the material covered; the day

before each test there will be a review session. Grades will be assigned on these three

equally-weighted tests, according to the 'standard' scale with the following thresholds:

A (90%), B (80%), C (70%), D(60%), with 3% increments above/below for plus/minus grades

(but note that A+ does not exist).

For other matters of policy, please see 'Policies plus' at the Files (<https://people.clas.ufl.edu/paulr/files/>) page.

## Homework

Chapter 1 (<https://people.clas.ufl.edu/paulr/files/Chapter-1.pdf>)

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