



# Spring 2019 MHF 3202

## Section

3E08

## Time and Location

**M W F Period 8** (3:00 pm – 3:50 pm), in **LIT 125**

## Textbook

How to Prove It (2nd Edition) by Daniel Velleman

## Prerequisites

MAC 2312

## Brief Description

This course is an introduction to formal mathematics. The emphasis in this course is not on learning facts, but rather on writing clear and rigorous proofs. Some of the material covered in this course may be quite familiar to you. The goal is to understand and write about this material in a formal mathematical way.

## Homework

Homework will be assigned regularly but not collected. However, doing all the homework is essential for success in this class as the exams test your conceptual understanding of the homework assignments.

Many homework problems involve doing proofs. Students are encouraged to check their proofs with their instructor.

Here is the tentative list of homework problems:

1.1.6, 1.2.4, 1.3.6.

Other problems: 1.1.1, 1.1.5, 1.1.7, 1.2.1, 1.2.5, 1.2.7, 1.2.9, 1.2.11, 1.2.14, 1.2.16, 1.3.1, 1.3.3, 1.3.5, 1.3.7.

1.5.5, 2.1.3, 2.1.5.

Other problems: 1.4.1, 1.4.4, 1.4.8, 1.4.10, 1.4.12, 1.5.1, 1.5.4, 1.5.6, 1.5.8, 2.1.1, 2.1.4, 2.1.7, 2.2.1, 2.2.4, 2.2.6, 2.2.8, 2.2.11.

2.3.10, 3.1.8, 3.2.10.

Other problems: 2.2.1, 2.2.4, 2.2.8, 2.2.11, 2.2.12, 2.1.1, 2.1.4, 2.1.7, 2.1.11, 2.1.14, 2.2.1, 2.2.5

Other problems: 2.3.1, 2.3.4, 2.3.6, 2.3.11, 2.3.13, 3.1.1, 3.1.4, 3.1.9, 3.1.11, 3.1.14, 3.2.1, 3.2.3, 3.2.8, 3.2.11, 3.2.14.

3.3.18, 3.4.19, 3.5.10.

Other problems: 3.3.1, 3.3.3, 3.3.7, 3.3.9, 3.3.12, 3.3.14, 3.3.17, 3.3.20, 3.3.22, 3.3.25, 3.4.1, 3.4.4, 3.4.7, 3.4.9, 3.4.12, 3.4.15, 3.4.17, 3.4.21, 3.4.23, 3.5.1, 3.5.4, 3.5.7, 3.5.11, 3.5.15, 3.5.19, 3.5.22, 3.5.23, 3.5.26, 3.5.28, 3.5.30.

3.6.8, 3.6.10.

Other problems: 3.6.1, 3.6.4, 3.6.6, 3.6.11, 3.7.1, 3.7.4, 3.7.9.

4.1.10, 4.2.8ab, 4.2.9.

Other problems: 4.1.1, 4.1.4, 4.1.6, 4.1.8, 4.1.12, 4.2.1, 4.2.4, 4.2.10.

4.3.14, 4.3.18, 4.4.6.

Other problems: 4.3.1, 4.3.3, 4.3.5, 4.3.7, 4.3.10, 4.3.13, 4.3.17, 4.3.20, 4.3.23, 4.4.1, 4.4.4, 4.4.8, 4.4.11, 4.4.14, 4.4.17, 4.4.21.

4.4.22, 4.6.13, 4.6.16a.

Other problems: 4.6.1, 4.6.3, 4.6.5, 4.6.9, 4.6.12, 4.6.15, 4.6.19, 4.6.21, 4.6.23.

5.1.17, 5.2.15, 5.3.12.

Other problems: 5.1.1, 5.1.3, 5.1.5, 5.1.7, 5.1.10, 5.1.12, 5.1.16, 5.1.18, 5.2.2, 5.2.5, 5.2.7, 5.2.10, 5.2.14, 5.2.17, 5.3.1, 5.3.3, 5.3.5, 5.3.9, 5.3.11, 5.3.14, 5.3.16.

6.1.2, 6.1.11, 6.2.3.

Other problems: 6.1.1, 6.1.3, 6.1.7, 6.1.10, 6.1.14, 6.1.19, 6.2.1, 6.2.4, 6.2.8, 6.2.10, 6.2.13.

6.3.9, 6.4.4, 7.1.3abc.

Other problems: 6.3.1, 6.3.6, 6.3.8, 6.3.12, 6.3.15, 6.3.18, 6.3.20, 6.4.1, 6.4.3, 6.4.6, 6.4.8, 6.4.10, 6.4.14, 6.4.18, 6.4.20, 7.1.1, 7.1.4, 7.1.6, 7.1.8, 7.1.17, 7.1.20.

## Grading System

The course grade will be determined by three in-class exams (equally weighted), the first two of which will be announced a week in advance and the third one will be on the last day of classes. **No electronic devices (including calculators) are permitted during the exams.** The resulting score determines the letter grade according to the following table.

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D
Score	100 – 93	92 – 88	87 – 83	82 – 74	73 – 69	68 – 64	63 – 59	58 – 54	53 – 49	48 – 40

## Attendance

Attendance is mandatory. Also, please arrive to class before it starts; it is very disruptive when someone walks in late.

## Make-ups

Make-up exams will not be administered unless it is supported by valid documentation.

## Student Honor Code

Students are expected to abide by the Honor Code.

## Accommodations

Students requesting classroom accommodations must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to their instructor when requesting accommodations.

## Disclaimer

I reserve the right to change the above policies if situations warrant.



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