

Home

Schedule

Links

Blog

Files

Analysis Seminar

MHF 3202 Section
4125 Summer B

MAA5228 (Section
0125) MAA4226
(Section 1484)

MHF 3202 Section 4125 Summer B

Sets and Logic

Time and Location

MTuWThF Period 3 (11:00-12:15) – 223 Little Hall

Office and office hours

414 Little Hall (NE Corridor) – Hours: TBA

Text

Daniel Velleman, *'How To Prove It'* (third edition)

Topics and Policies

This course will be based primarily on the adopted text (*How To Prove It*) but it will also include some occasional extra material. A supporting reference, *Book of Proof*, has been kindly made available free-of-charge by its author, Richard Hammock, and can be downloaded here: [Book of Proof](#).

The course material falls quite naturally into three sections, each taking approximately two weeks. The first section (chapters one and two of Velleman) is primarily devoted to learning the language of mathematical logic and set theory: the logic provides the tools with which to argue; sets provide something about which to argue. The second section (chapter three of Velleman) assembles a variety of proof techniques, individual 'steps' that are available for use in constructing full arguments to establish claims, along with guidance as to when and how to apply them. The third section covers topics from the later chapters of Velleman, in which the various proof techniques are applied to specific mathematical topics; these will include mathematical induction and infinite sets.

Grades will be based on performance in three equally-weighted tests, one given at the end of each even-numbered week of semester. Each actual test will be preceded by a take-home practice test, to serve as a review. The grading scale has the following thresholds: 90% for an A, 80% for a B, 70% for a C, 60% for a D, with +40% for a plus grade and -30% for a minus grade.

For various matters of policy, please see 'Policies plus' at the Files page.

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