Instructor: Kevin Keating  
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Office hours: Mondays 3:00–3:50, Wednesdays 10:40–11:30 and 3:00–3:50,  
or by appointment.  
Class meets in Little 127, MWF 1:55–2:45  

Textbook  
How to Prove It (2nd Edition) by David Velleman  

Syllabus  
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 give rigorous proofs  
of these familiar facts using a few basic axioms.  

Homework  
Homework problems will be assigned and collected on a regular basis. You are encour- 
egaged to discuss the problems with your classmates, but any work you turn in must be  
your own. Late homework will not be accepted.  

Exams  
Friday, January 30, in class.  
Friday, February 27, in class.  
Wednesday, April 1, in class.  
Thursday, April 30, 3:00–5:00 (final).  

Grading  
Each in-class exam is worth 20% of your final grade, the final is worth 40%, and the  
homework assignments are worth a total of 20%. I will drop your lowest in-class exam  
score (or half of your final exam) to make the total add up to 100%. Your grade will be  
determined by the following scale:  

\[
\begin{align*}
90 \leq x & \leq 100 : A \\
85 \leq x & < 90 : A- \\
80 \leq x & < 85 : B+ \\
75 \leq x & < 80 : B \\
70 \leq x & < 75 : B- \\
65 \leq x & < 70 : C+ \\
60 \leq x & < 65 : C \\
55 \leq x & < 60 : C- \\
50 \leq x & < 55 : D+ \\
45 \leq x & < 50 : D \\
40 \leq x & < 45 : D- \\
0 \leq x & < 40 : E
\end{align*}
\]