

# Math 225: Linear Algebra

Fall 2022 Instructors:

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# Proofs:

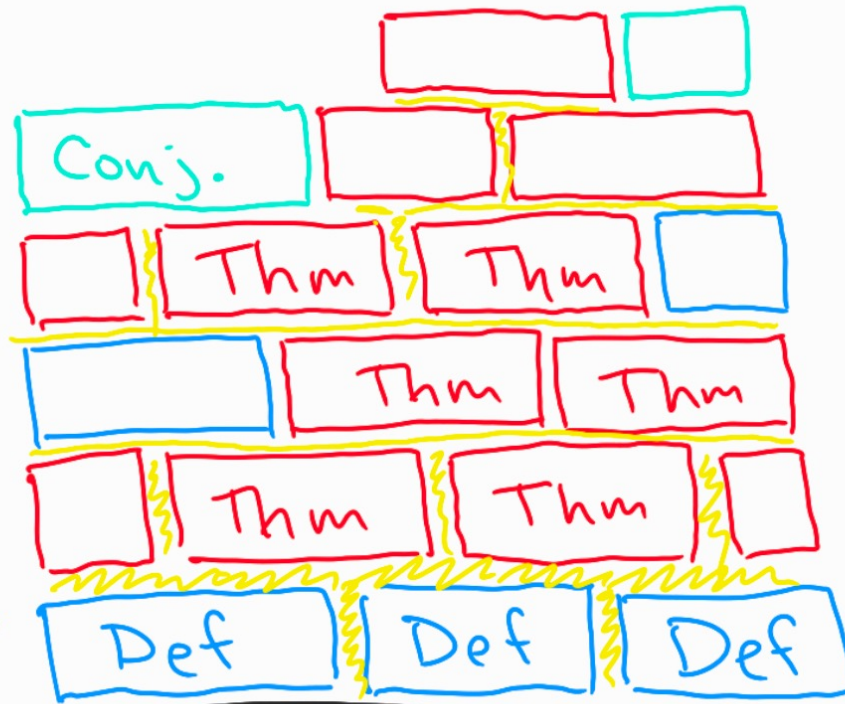
- Math 225 is a proof-based course

# Proofs:

- Math 225 is a proof-based course
- What is a proof?

Conjectures:  
things we think  
are true, but  
have not yet  
proved

Proofs: the logical  
cement that  
holds it all together



Theorems:  
facts that are  
proved with logic

Definitions:  
naming things  
we care about

# Proofs:

- Math 225 is a proof-based course.
- What is a proof?
- How can you expect this course to be different from other math courses you have taken?

# Resources:

- Professor office hours
- TA office hours
- ULA study group sessions
- ULA proof writing workshops

# Course Structure

- The two sections of Math 225 will be closely coordinated
  - Shared homework sets
  - Shared exams
  - Shared TAs and ULAs
  - Closely matched pacing

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  - Closely matched pacing
- Math 225 and 226 will be paced similarly, so that switching from 226 to 225 is possible



# Course Structure

- Textbook: *Linear Algebra* by Friedberg, Insel, and Spence
- MWF lectures
- Weekly homework sets
- 2 midterms and a final
- Grading: Your final grade will be based on the higher of the two following scores
  - 30% Homework, 20% Midterm 1, 20% Midterm 2, 30% Final Exam
  - 30% Homework, 20% MAX( Midterm 1, Midterm 2), 50% Final Exam

Questions?