## Journal of Inquiry-Based Learning in Mathematics

## Course Notes Submission Form

Please email this form to the Course Notes Submissions Editor with any course notes submission. This information will be made available to JIBLM users when your course notes are published.

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- 5. Title of Course Notes: Linear Algebra: Notes and Problems
- 6. Abstract: This set of notes and problems covers a junior level linear algebra course (following an introduction to proof course) with broad chapter topics of 1) efficiently solving systems of linear equations, 2) vector spaces, 3) Connecting ideas (Dimension, invertibility, and eigenvalues), and 4) inner product spaces. The approach of these notes is a blend of computational and sense making problems, as well as increasing usage of conjecture and proof throughout the course.
- 7. History of Use: These notes have been used by two faculty members in five sections of the junior level linear algebra course at SFASU over a four year period.