Prerequisite: Credit for or concurrent enrollment in MATH 1432.

Text: My homework notes will be self contained. I’ll be glad to suggest supplemental reading material.

Exams: Two midterm exams ($2 \times 30\%$) and a cumulative final exam ($40\%$).

Topics:
1: Matrices, Systems of Equations, Gaussian Elimination
2: Vector Spaces, Independence, Span and Bases
3: Abstract Vector Spaces and Linear Maps
4: Determinants
5: Eigenvalues and Eigenvectors
6: Orthogonality and Symmetric Matrices
7: Diagonalization
8: Introduction to the Jordan Form

- I will give you a one week heads-up before each midterm exam.
- You must take the final exam and at the scheduled date and time.
- I will not give incompletes.

Homework and additional notes will be posted on my web page:

https://www.math.uh.edu/~sanders.

Your final grade will be based on the total of your two exams ($2 \times 30\%$) and final ($1 \times 40\%$). I guarantee a total average of $90\%$ will at least earn a class grade of $A−$, $80\%$ a $B−$, etc. Depending on the class however, I will almost certainly curve down from these target total scores.