

**DEPARTMENT OF MATHEMATICS
SYLLABUS**

Course # & Name: MAT 22AL: Linear Algebra Computer Lab

Recommended Text(s) & Price: _____

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Lab #	Comments/Topics
1	Introduction and basic MATLAB commands
2	Matrix Operations; Solving linear systems
3	Determinant
4	Constructing curves and surfaces through specific points
5	Plotting graphs; Linear Transformations in \mathbb{R}^2
6	Vector space: Linear Combinations, Spanning set, Linear independence, Basis
7	Fundamental sunspace of a matrix (Row space, Column space, Null space)
8	Matrices with Complex Entries
9	Least Square Solutions

Additional Notes: