

Schedule

Table 1: 2210 Class Schedule

| Date | Sections | Topics |
|-------|----------|---|
| 8/27 | 1.1-1.2 | Intro to Linear Algebra, systems of equations |
| 8/29 | 1.3 | Vector equations |
| 9/3 | 1.4-1.5 | Matrix equations; solution sets |
| 9/5 | 1.7 | Linear independence |
| 9/10 | 1.8-1.9 | Linear transformations and the associated matrix |
| 9/12 | 2.1 | Matrix operations |
| 9/17 | 2.2-2.3 | Inverses and invertible matrices |
| 9/19 | 3.1-3.2 | Determinants |
| 9/24 | 3.3-4.1 | Cramer's Rule, Volumes; Vector Spaces and Subspaces |
| 9/26 | | Exam Review |
| 10/1 | | First Exam |
| 10/3 | | No class (Rosh Hashanah) |
| 10/8 | 4.2 | Null space, column space |
| 10/10 | 4.3-4.4 | Bases and linear independence; coordinates |
| 10/15 | 4.5 | Dimension |
| 10/17 | 4.6-4.7 | Rank, change of basis |
| 10/22 | 5.1 | Eigenvectors, eigenvalues |
| 10/24 | 5.2-5.3 | Characteristic polynomials, diagonalization |
| 10/29 | 5.4 | Eigenvector and linear transformations |
| 10/31 | | Review |
| 11/5 | | Exam 2 |
| 11/7 | 6.1-6.2 | Inner products, orthogonality |
| 11/12 | 6.3 | Orthogonal Projection |
| 11/14 | 6.4-6.5 | Gram-Schmidt, least squares |
| 11/19 | 7.1 | Diagonalization of symmetric matrices |
| 11/21 | 7.2-7.3 | Quadratic forms, constrained optimization |

| Date | Sections | Topics | |
|-----------------|----------|------------------------------|-------------------|
| 11/26- 11/28 | | No Class; Thanksgiving break | |
| 12/3 | | Singular Value Decomposition | |
| 12/5 | | Review/Catch-up | |
| 12/9-12/11 | | Finals Period | Final Exam TBD |
| 12/12 | | Reading Day | |
| 12/13- 12/15 | | Finals Period resumes | Final Exam TBD |