Linear Algebra Tentative Calendar

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| **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| Class 1  Lesson 1:  Six Major Problems |  | Class 2  Lesson 2:  Intro to Set Theory |  | Class 3  Lesson 3:  Relations and Functions |
| Class 4  Lesson 4:  Vector Modeling |  | Class 5  Lesson 5:  Vector Arithmetic |  | Class 6  Lesson 6:  Inner Products |
| Class 7  Lesson 7:  Vector norms |  | Class 8  Lesson 8:  Linear Independence |  | Class 9  Lesson 9:  Matrix Modeling |
| Class 10  Lesson 10:  Outer Products & Elementary Matrices |  | Class 11  Lesson 11:  Matrix Arithmetic |  | Class 12  Lesson 12:  Matrix-Vector Multiplication |
| Class 13  **IN-CLASS EXAM 1**  **LESSONS 0 - 11** |  | Class 14  Lesson 13:  Four Versions of Matrix-Matrix Multiplication |  | Class 15  Lesson 14:  Nonsingular  Linear-Systems Problem |
| Class 16  Lesson 15:  Matrix Inverses |  | Class 17  Lesson 16:  Invertible Matrix Theorem |  | Class 18  Lesson 17:  LU Factorization |
| Class 19  Lesson 18:  General  Linear-Systems Problem & Row Echelon Form |  | Class 20  Lesson 19:  Solution Sets to General Linear Systems Problem |  | Class 21  Lesson 20:  Determinants |
| Class 22  Lesson 21:  Vector Spaces |  | Class 23  Lesson 22:  Null & Column Space |  | Class 24  Lesson 23:  Dimension and Rank |
| Class 25  Lesson 24:  Least Squares |  | Class 26  Lesson 25:  Orthogonal Sets |  | Class 27  Lesson 26:  Orthogonal Projections |
| Class 28  **IN-CLASS EXAM 2**  **LESSONS 12 – 25** |  | Class 29  Lesson 27:  Gram-Schmidt Process |  | Class 30  Lesson 28:  QR Factorization |
| Class 31  Lesson 29:  Intro Eigenvalues |  | Class 32  Lesson 30:  Characteristic Eq. |  | Class 33  Lesson 31:  Diagonalization |
| **\*\**FINAL EXAM\*\****  ***8:00AM – 10AM*** | **\*\*Finals Week\*\*** | **\*\*Finals Week\*\*** | **\*\*Finals Week\*\*** | **\*\*Finals Week\*\*** |