Linear Algebra Tentative Calendar

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