

Georgetown University
Math150–Linear Algebra Summer 2019

Classroom: TBA

Class meetings: MTWR 10:45am-1:25 pm

Instructor: Sara Gharahbeigi,

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Office Hours: TBA

Course Description: This course presents the basic theory and methods of finite dimensional vector spaces and linear transformations on them. Topics include: matrices and systems of linear equations; vector spaces, bases, and dimension; linear transformations, kernel, image, matrix representation, basis change, and rank; scalar products and orthogonality; determinants; eigenvalues, eigenvectors, diagonalization of symmetric matrices, positive definite matrices.

Required Text: Linear Algebra And Its Application, by Lay, 4'th Edition. (This edition is significantly cheaper than the newest edition, make sure to buy the right edition)

We will cover the first six chapters (few sections might be skipped).

All cell phones and electronic devices should be turned off during class.