

**GEORGETOWN UNIVERSITY**  
**Math150–Linear Algebra Summer 2018**

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**Classroom:** St Mary's 111

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

**Instructor:** Sara Gharahbeigi,

**Office:** St. Mary's Hall G-30

**E-mail:** [sg1120@Georgetown.edu](mailto:sg1120@Georgetown.edu)

**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, 4<sup>th</sup> Edition (Subject to change!)

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