

# Linear Algebra

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### **Abstract**

This is a college-level Linear Algebra & Differential Equations course taught by Mr. James Perna at the Bronx High School of Science. Topics include System of Linear Equations, Determinants, Vector Spaces, Eigenvalues and Eigenvectors, Linear Transformation, and Orthogonality.

# Contents

<b>1 Systems of Linear Equations and Matrices</b>	<b>2</b>
<b>2 Application of Matrices</b>	<b>3</b>
<b>3 Determinants</b>	<b>4</b>
<b>4 Euclidean Vector Spaces</b>	<b>5</b>
<b>5 General Vector Spaces</b>	<b>6</b>

## Chapter 1

# Systems of Linear Equations and Matrices

# **Chapter 2**

# **Application of Matrices**

# **Chapter 3**

# **Determinants**

## Chapter 4

# Euclidean Vector Spaces

# Chapter 5

# General Vector Spaces