

# EGR2145 “Mathematical Analysis”

## Recordings 2024

<a href="#">ENGR2145-20240116a.mp4</a> Course Introduction and MATLAB Basics (ch 1)	<a href="#">ENGR2145-20240322a.mp4</a> Newton Raphson algorithm and built-in MATLAB functions for finding zeros of a function.
<a href="#">ENGR2145-20240119a.mp4</a> MATLAB Basics (ch 1) Continued	<a href="#">ENGR2145-20240326a.mp4</a> Discussed Quiz in mid-April and Linear Algebra
<a href="#">ENGR2145-20240123a.mp4</a> Matrices and Vectors (ch 2)	<a href="#">ENGR2145-20240402a.mp4</a> Numerical Integration and Differentiation
<a href="#">ENGR2145-20240126a.mp4</a> Matrices and Vectors (ch 2) Continued	<a href="#">ENGR2145-20240405a.mp4</a> Numerical differentiation and Integration examples and Intro to Statistics
<a href="#">ENGR2145-20240130a.mp4</a> , <a href="#">ENGR2145-20240126b.mp4</a> Intro to MATLAB Programming (ch 3)	<a href="#">ENGR2145-20240409a.mp4</a> Data Analysis & Statistics
<a href="#">ENGR2145-20240202b.mp4</a> Intro to MATLAB Programming (ch 3) continued	<a href="#">ENGR2145-20240412b.mp4</a> Discussed Applications of Data Analysis and introduced Interpolation.
<a href="#">ENGR2145-20240206a.mp4</a> Finish ch3 and Conditionals (ch 4)	<a href="#">ENGR2145-20240416b.mp4</a> Quiz results and interpolation Example
<a href="#">ENGR2145-20240209a.mp4</a> Discussed course progress, fixed our Bouncing Ball program, and started ch5	<a href="#">ENGR2145-20240419b.mp4</a> Interpolation example, Regression and regression examples.
<a href="#">ENGR2145-20240213b.mp4</a> Loops (ch 5) continued (via Zoom – SNOW)	<a href="#">ENGR2145-20240423a.mp4</a> Course Review
<a href="#">ENGR2145-20240216a.mp4</a> Loops (ch 5) example programs and Advanced Functions (ch 6)	<a href="#">ENGR2145-20240426a.mp4</a> Review Examples
<a href="#">ENGR2145-20240223a.mp4?</a> Advanced Functions (ch 6) continued and Plots & Graphs	
<a href="#">ENGR2145-20240227a.mp4</a> Review Quiz 1 and Symbolic Analysis	
<a href="#">ENGR2145-20240301a.mp4</a> Discuss MidTerm, Using MatLab for Pynomials and Partial Fractions, and Introduction to Simulink.	
<a href="#">ENGR2149-20240312b</a> Discuss Midterm, Simulink to simulate a second order DifEq, solved a DifEq by hand.	
<a href="#">ENGR2145-20240319b.mp4</a> Review the Midterm Exam results and Introduced the Bisection/Bracketing algorithm for finding roots of a polynomial.	