**EEE 244 NUMERICAL ANALYSIS SPRING 2024**

Instructor : Preetham B. Kumar

Class schedule: Mon/Wed: 12 – 12.50 Pm, ARC 1015

Fri: Zoom link:   <https://csus.zoom.us/j/86765178576>

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Office hours: Mon/Wed/Fri: 1- 2 pm <https://csus.zoom.us/j/867091331>

# References :

[**https://www.mathworks.com/help/matlab/getting-started-with-matlab.html**](https://www.mathworks.com/help/matlab/getting-started-with-matlab.html)

[**https://www.mathworks.com/help/simulink/getting-started-with-simulink.html**](https://www.mathworks.com/help/simulink/getting-started-with-simulink.html)

[**https://www.python.org/about/gettingstarted/**](https://www.python.org/about/gettingstarted/)

Course Grading

Midterm I : 20%

Midterm II: 20%

Finals: 30% (comprehensive)

Project: 20%

Homework: 10%

**2 double-sided pages** of notes are allowed for midterms

**4 double-sided pages** of notes for final.

**Top Hat**

Students are required to obtain a Top Hat account. We will be using the Top Hat ([www.tophat.com](http://www.tophat.com/)) classroom response system in class on Fridays. You will be able to submit answers to in-class questions using Apple or Android smartphones and tablets, laptops, or through text message.

You can visit the Top Hat Overview (<https://success.tophat.com/s/article/Student-Top-Hat-Overview-and-Getting-Started-Guide>) within the Top Hat Success Center which outlines how you will register for a Top Hat account, as well as providing a brief overview to get you up and running on the system.

An email invitation will be sent to you by email, but if don’t receive this email, you can register by simply visiting our course website: <https://app.tophat.com/e/182276/>  
Note: our Course Join Code is **182276**

**Class Schedule for Spring 2024**

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WEEK BEGINNING TOPICS NOTES \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 01/22/24 Introduction 1

2 01/29/24 MATLAB/Python Fundamentals 2

3,4 02/05/24 Matrices and equation solving 3

5 02/19/24 Numerical Integration 4

6 02/26/24 **Theory Review**

**02/28/24 Practice Midterm Review**

**03/04/24 Midterm I**

7,8 03/06/24 Ordinary differential equations 5

**9 03/18/24 SPRING BREAK**

10 03/25/24 FFT 6

11 04/01/24 Curve Fitting 7

12 **04/08/24** **Theory Review**

**04/10/24 Practice Midterm Review**

**04/15/24 Midterm II**

13,14 04/17/24 Numerical optimization 8

15 04/29/24 Project week

16 05/06/24 Review

**17 05/13/24 Final Exam: 12.45-2.45 pm**

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