

San Francisco State University
School of Engineering

Course Description:

ENGR 290: MATLAB Programming Introduction

Prerequisite: ENGR 100

Credit: 1 unit

Basic introduction to MATLAB language. Array manipulations, control-flow, script and function files. Simple 2-D plotting and editing. Programming assignments.

Course Objectives:

The course is going to introduce the basic operations of the MATLAB language, write simple script files and function files, and effectively use the built-in features to plot 2D graphs.

References:

Mastering MATLAB 8 by Duane Hanselman and Bruce Litterfield

Online Tutorial “<http://www.math.osu.edu/~overman.2/matlab.pdf>”

Instructor:

Hao Jiang

Rm: Sci 213C; Tel: 86379; Office Hour: Wednesday 2-5pm.

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Course Contents:

1. Basics
2. Basic calculation using MATLAB
3. Graph
4. M-file Script
5. Data Analysis
6. Curve fitting

Evaluation:

1. 5 labs (75%)
 - a. Each lab report is 10 points.
 - b. Each attendance is 5 points.
2. 1 final independent project (25%)

>40%	40-44%	45-49%	50-54%	55-59%	60-64%	65-69%	70-74%	75-79%	80-84%	85-89%	90-95%	>95%
F	D-	D	D+	C-	C	C+	B-	B	B+	A-	A	A+