# Syllabus



**Course Meeting Times**

Lectures: 1 session / day for 5 days, 2 hours / session

**Course Description**

This course provides an aggressively gentle introduction to MATLAB®. It is designed to give students fluency in MATLAB, including popular toolboxes. The course consists of interactive lectures with a computer running MATLAB for each student. Problem-based MATLAB assignments are given which require significant time on MATLAB. To pass, a student must complete all four MATLAB assignments.

**Prerequisites**

Required: 6.001 *Structure and Interpretation of Computer Programs*, 18.03 *Differential Equations*
Recommended: 6.041 *Probabilistic Systems Analysis*, 18.06 *Linear Algebra*

**Textbooks**

The following textbook is required:

Palm, William J. *Introduction to MATLAB 7 for Engineers*. New York, NY: McGraw-Hill, 2003. ISBN: 9780072922424.

**MATLAB® Tutorials**

MATLAB tutorial

Another MATLAB tutorial

Signal Processing Toolbox

**Calendar**

| SES # | TOPICS |
|---|---|
| 1 | Variables, operations, and plotting |
| 2 | Visualization and programming |
| 3 | Solving equations and curve fitting |
| 4 | Advanced methods |
| 5 | Simulink® |