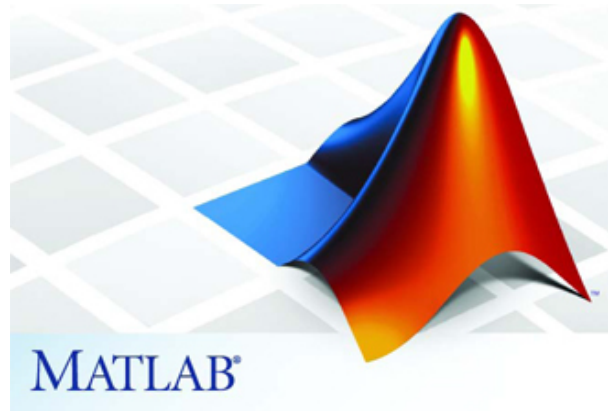


# MTH 399: Introduction to Mathematical Software Fall 2014

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In modern mathematics, powerful software packages are being used not just to manage, model, and analyze data in traditionally applied fields, but also to aid in complicated symbolic computations in a range of pure fields. Additionally, as science and industry are becoming increasingly data-driven and reliant on computational resources, having an understanding of scientific software is clearly advantageous.

This three credit course is designed to provide basic understanding of software packages commonly utilized in the mathematical sciences. The course will be conducted in a computer-lab with access to all the relevant software.

In this course, you will:

1. Learn how and when to use modern computing environments such as Matlab and Mathematica.
2. Use each system for symbolic and numerical problem solving and visualization.
3. Learn basic programming concepts through computer-aided lectures and projects.
4. Learn how to typeset and communicate results in  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ .

While one mathematical subject will not be emphasized over another, students should be generally familiar with calculus and basic linear algebra.

More information is available at the website:

<http://www.math.oregonstate.edu/~koslickd/MTH399.html>

