

Mathematica @ Tufts University



What is *Mathematica*?

Mathematica is a software package which is ideal for communicating scientific ideas, whether this is visualization of a concept in an intro-level course, or creating a simulation of a new idea related to research. *Mathematica* is used in virtually all of the world's top universities and colleges, and is commonly used in the following types of departments --- [Mathematical Sciences](#), [Physical Sciences](#), [Business and Finance](#), [Life Sciences](#), [Engineering](#), [Computer Science](#)

How to Get *Mathematica*

Mathematica is currently available for any campus-owned machine (computer lab, office machine, or research station):

- [Link to Research Computing installers](#)

Mathematica can also be installed on:

- [Faculty and staff personally-owned machines, click for Wolfram request form](#)

The web site will ask whether you want a DVD shipment or download license for Windows, Mac OSX, or Linux

Students can install *Mathematica* on their personal machines and connect to the campus network license:

- [Link to Research Computing installers](#)

Tutorials to Learn *Mathematica*

The first two tutorials are excellent for new users, and can be assigned to students to learn *Mathematica* outside of class time.

- [First Ten Minutes with *Mathematica*](#) - Shows most current tips and templates to get started with *Mathematica*, including free-form input
- [Hands-On Start to *Mathematica*](#) - Review and assign to students as homework for more in-depth overview

Collection of tutorials to branch out and explore more specific applications and areas of *Mathematica*.

- [Learning Center](#) - Search Wolfram's large collection of materials for example calculations or tutorials in your field of interest

Teaching with *Mathematica*

- [How To Create a Lecture Slideshow](#) - Show a mixture of graphics, calculations, nicely formatted text, as slides with live calculations or animations in class
- [Assigning Student Projects \(Video Tutorial\)](#) - Give students guided projects to explore concepts either through a Course Management System to supplement your text
- [Full Collection of How To Tutorials](#) - Ranging from how to create animations to basic syntax information

Research with *Mathematica*

- [Programming and Parallel Computing Basics \(Video Tutorial\)](#) - Learn how to create programs and take advantage of multi-core machines or a dedicated cluster
- [Scope of Field-Specific Applications](#) - Learn what areas of *Mathematica* are useful for specific fields