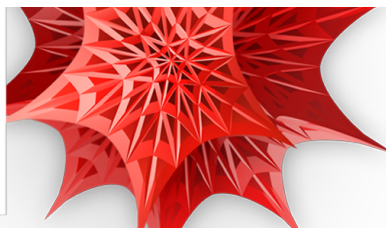# *Mathematica* @ Northland Comm. College

What is *Mathematica*?

Mathematica is a software package 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*

- **Student personally owned machines**
  Follow the directions below to download from the Wolfram User Portal.

  1. Create an account:
     (New users only)

     (a) Go to user.wolfram.com and click "Create Account"
     (b) Fill out form using a @student.northlandcollege.edu email, and click "Create Wolfram ID"
     (c) Check your email and click the link to validate your Wolfram ID

  2. Request a key:

     (a) Fill out this form to request an Activation Key
     (b) Click the "Product Summary page" link to access your license
     (c) Click "Get Downloads" and select "Download" next to your platform
     (d) Run the installer on your machine, and enter Activation Key at prompt

- **Faculty and staff campus machines**
  Follow the directions below to download from the Wolfram User Portal.

  1. Create an account:
     (New users only)

     (a) Go to user.wolfram.com and click "Create Account"
     (b) Fill out form using a @northlandcollege.edu email, and click "Create Wolfram ID"
     (c) Check your email and click the link to validate your Wolfram ID

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     (c) Click "Get Downloads" and select "Download" next to your platform
     (d) Run the installer on your machine, and enter Activation Key at prompt

- Faculty and staff personally owned machines
  Fill out [this web form](#) to request a home-use license from Wolfram

Mathematica is currently installed in the following locations:

- All public computer labs

Tutorials to Learn *Mathematica*

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

- [Hands-On Start to *Mathematica*](#) - Collection of tutorials to branch out and explore more specific applications and areas of *Mathematica*
- [What's New in *Mathematica* 9](#) - Provides examples to help you get started with new functionality in *Mathematica* 9, including the predictive interface
- [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