

# MATLAB® & Simulink® Student Version

## Installation Instructions

**R2013a**

# MATLAB® & SIMULINK®

## STUDENT VERSION

**Also includes:**

Control System Toolbox™	Optimization Toolbox™
Data Acquisition Toolbox™	Signal Processing Toolbox™
DSP System Toolbox™	Simulink Control Design™
Image Processing Toolbox™	Statistics Toolbox™
Instrument Control Toolbox™	Symbolic Math Toolbox™

## How to Contact MathWorks



www.mathworks.com  
comp.soft-sys.matlab

Web  
Newsgroup



suggest@mathworks.com  
bugs@mathworks.com  
doc@mathworks.com  
info@mathworks.com

Product enhancement suggestions  
Bug reports  
Documentation error reports  
Sales, pricing, and general information



508-647-7000 (Phone)



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3 Apple Hill Drive  
Natick, MA 01760-2098

For localities outside the U.S., see the MathWorks Web site.

*MATLAB® & Simulink® Student Version Installation Instructions*

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### Revision History

April 2007	First printing	Rewritten for Release 2007a
March 2008	Online only	Release 2008a
October 2008	Online only	Release 2008b
March 2009	Online only	Release 2009a
March 2010	Online only	Release 2010a
April 2011	Online only	Release 2011a
March 2012	Online only	Release 2012a
March 2013	Online only	Release 2013a

## Installation and Activation Instructions

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# Installation and Activation Instructions

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You can download Student Version at [http://www.mathworks.com/downloads/student\\_downloads](http://www.mathworks.com/downloads/student_downloads), or request a Student Version DVD.

This chapter describes how to install and activate Student Version using the Student Version DVD:

- “What Is Student Version?” on page 1-2
- “System Requirements” on page 1-3
- “Install and Activate Student Version” on page 1-6
- “Install Additional Products” on page 1-33
- “Mount the DVD on Linux Systems” on page 1-34

## **What Is Student Version?**

If you are studying engineering, science, math, or finance, then MATLAB® & Simulink® Student Version is your essential technical computing resource.

Student Version includes full-featured versions of both the MATLAB and Simulink software used by engineers, scientists, and mathematicians at leading universities, research laboratories, technology companies, and government laboratories around the world. Student Version also includes several other MathWorks® software add-ons that help you do course work in the areas of signal processing, control design, statistics, optimization, and symbolic computing.

For more information about what Student Version contains and what you can do with it, see MATLAB and Simulink Student Version.

### **Student Use Policy**

The Student Version License is for use in conjunction with courses at degree-granting institutions. MathWorks offers this license as a special service to the students and asks your help in seeing that its terms are not abused.

To use this Student License, you must be a student enrolled at a degree-granting higher education institution, or be a student or teacher at a high school or pre-university school. You may not use this Student License at a company or government laboratory. Also, you may not use it if you are an instructor at a university, or for research, commercial, or industrial purposes. In these cases, you can acquire the appropriate professional or academic license by contacting MathWorks at [www.mathworks.com/academia/student\\_version](http://www.mathworks.com/academia/student_version).

## System Requirements

### In this section...

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“Macintosh Systems” on page 1-4

“Linux Systems” on page 1-4

“MEX-Files” on page 1-5

**Note** For detailed and current information on system requirements, see <http://www.mathworks.com/support/sysreq/sv-r2013a/>.

## Windows Systems

### 32-Bit MathWorks Products

Operating System	Processors	Disk Space	RAM
Windows® XP Service Pack 3	Any Intel® or AMD x86 processor supporting the SSE2 instruction set	1 GB (MATLAB only)	1024 MB  (At least 2048 MB recommended)
Windows Server 2003 R2 with Service Pack 2		3-4 GB for a typical installation	
Windows Vista™ Service Pack 2			
Windows Server 2008 Service Pack 2 or R2			
Windows 7 SP1			
Windows 8			

## Macintosh Systems

### 64-Bit MathWorks Products

Operating System	Processors	Disk Space	RAM
Mac OS X 10.8 (Mountain Lion)	All 64-bit Intel based Macs	1 GB (MATLAB only)	1024 MB
Mac OS X 10.7 (Lion)		3-4 GB for a typical installation	(At least 2048 MB recommended)
Mac OS X 10.6.4 (Snow Leopard) and above with Apple Java for Mac OS X Update 2 and above			

## Linux Systems

### 64-Bit MathWorks Products

Operating System	Processors	Disk Space	RAM
Qualified distributions*: Ubuntu 10.04 LTS, 11.04, and 11.10	Any Intel or AMD x86 processor supporting the SSE2 instruction set.	1 GB (MATLAB only)	1024 MB
Red Hat Enterprise Linux® 5.x or 6.x		3-4 GB for a typical installation	(At least 2048 MB recommended)
SUSE Linux Enterprise Desktop 11.x			
Debian 6.x			



## **MEX-Files**

MEX-files are dynamically linked subroutines that MATLAB automatically loads and executes. MEX-files provide a mechanism by which you call your own C and Fortran subroutines from MATLAB as if they were built-in functions. To build your own MEX-files, you need a supported compiler.

For the most up-to-date information about compilers, see the support area at the MathWorks Web site ([http://www.mathworks.com/support/sysreq/current\\_release/](http://www.mathworks.com/support/sysreq/current_release/)).

## Install and Activate Student Version

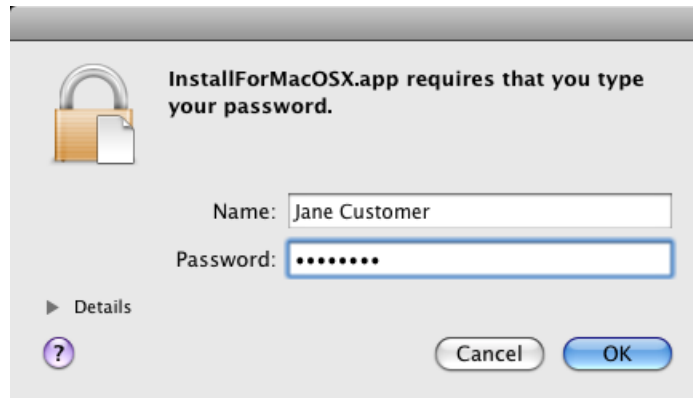
In this section...
“Before You Begin” on page 1-6
“Installation Procedure” on page 1-7
“Activation Procedure” on page 1-11
“Customize the MATLAB Environment” on page 1-31
“Start MATLAB Student Version” on page 1-31

Follow these instructions to install and activate the Student Version software on your computer.

### Before You Begin

Before you run the installer:

- Exit any existing copies of MATLAB that you are running.
- Make sure you have your email address and your MathWorks Account password handy. You will need them to log in to your account during installation. If you don't have a MathWorks Account, you can create one during the installation and activation process.
- Make sure you have the correct permissions to perform the installation.
  - **Windows Systems** — You must have administrator privileges to install the software.
  - **Linux Systems** — Get the root password. You can install MATLAB software without superuser privileges, however, it limits certain installation options. For example, if you want to setup symbolic links to the `matlab` command, you must have root privileges.
  - **Macintosh Systems** — Get the name and password of the administrator account on your computer. The administrator account is the user account you set up when you configured your Macintosh system; this is not your MathWorks Account. During installation, you must enter this name and password in the Authenticate dialog box, shown below.



## Installation Procedure

- 1 Start the installer by inserting the Student Version DVD into the DVD drive.
  - **Windows Systems** — The installer should start automatically. If it doesn't, open the DVD in Windows Explorer. In the top-level folder on the DVD, double-click the MathWorks Installer, `setup.exe`.
  - **Linux Systems** — In a terminal window, navigate to the top-level folder on the DVD and execute the following command:

```
./install &
```

Depending on how your system is configured, you might have to mount the DVD first. Make sure you mount it with execute permissions, as in the following example. Note that the name of the DVD drive might be different on your system. For more information, see “Mount the DVD on Linux Systems” on page 1-34.

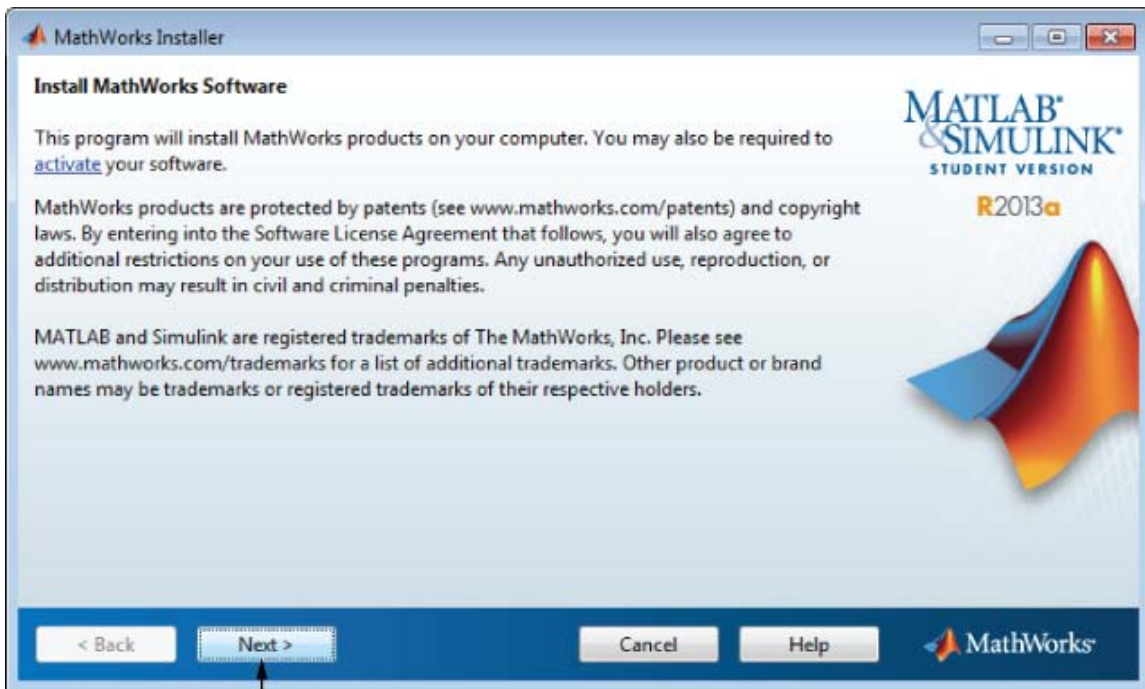
```
mount -o exec /media/cdrom0
```

- **Macintosh Systems** — Double-click the DVD icon on your desktop to open the DVD and then double-click the `InstallForMacOSX` icon.



InstallForMacOSX

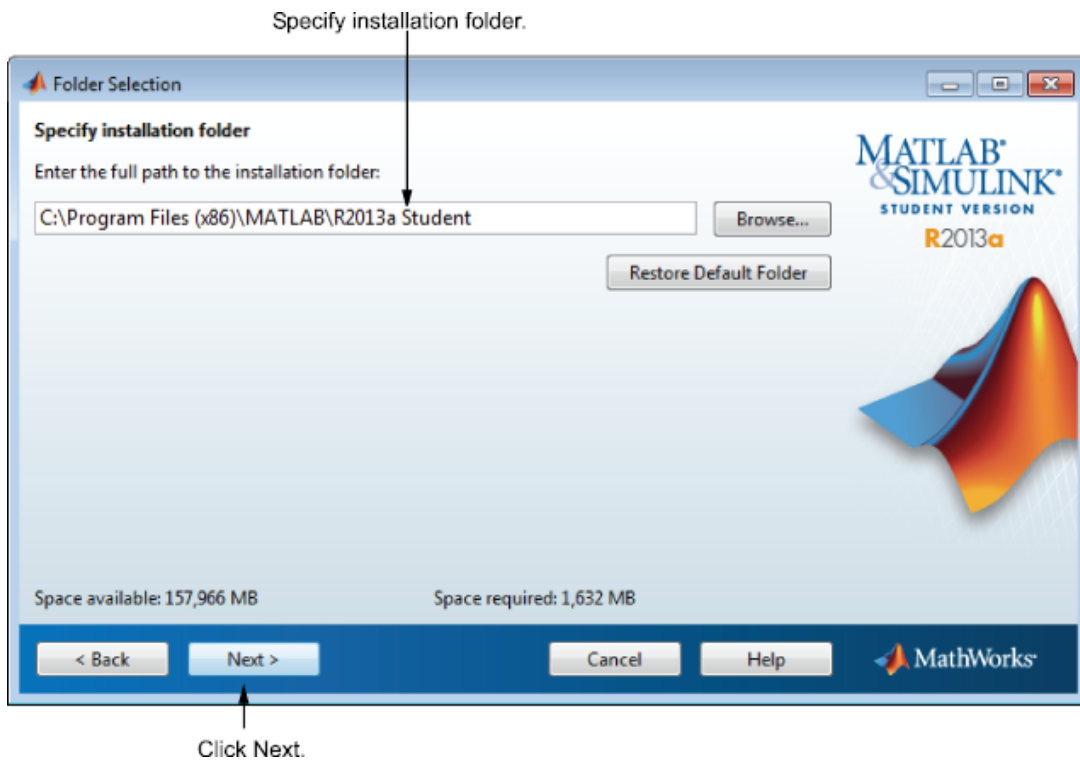
- 2 Read the information in the MathWorks Installer dialog box, and then click **Next**.



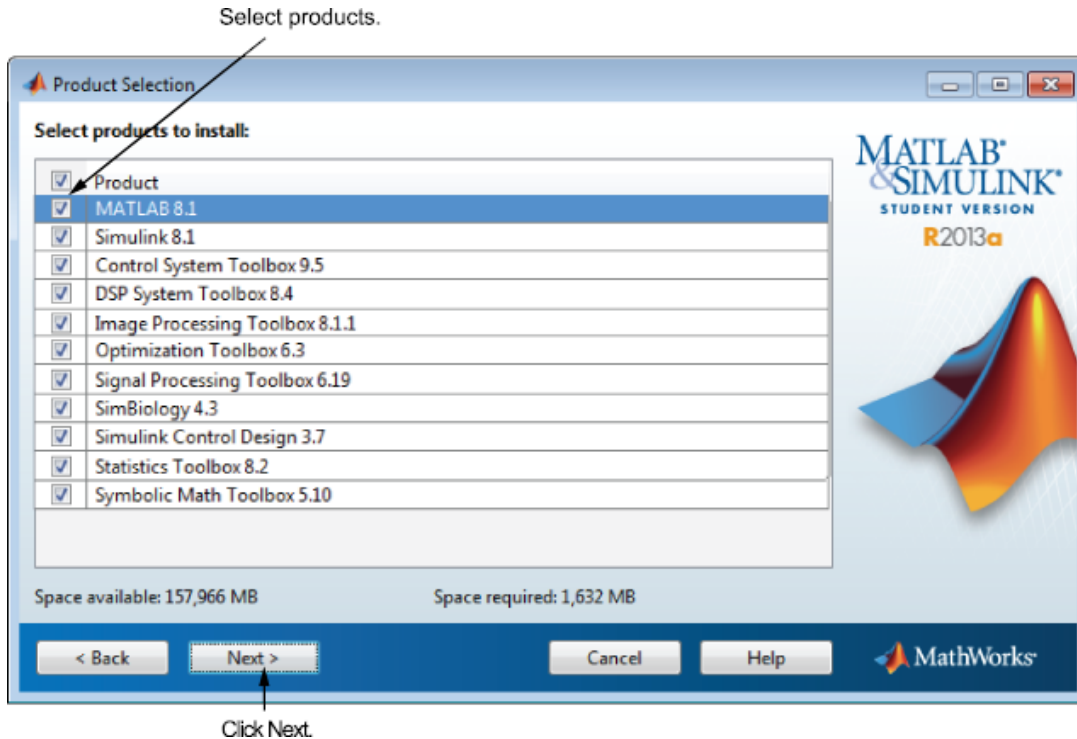
Click Next.

- 3 Review the software licensing agreement in the License Agreement dialog box and, if you agree with the terms, select **Yes** and click **Next**.

- 4 Select the type of installation you want to perform in the Installation Type dialog box: **Typical** or **Custom**. A typical installation installs all the licensed products. If you want to choose which products get installed, select the **Custom** option. After making your selection, click **Next**.
- 5 Specify the name of the folder where you want to install MathWorks products in the Folder Selection dialog box. Accept the default folder, or specify another folder, and click **Next**. If the folder doesn't exist, the installer creates it. The default installation folder varies by platform:
  - Windows — C:\Program files\MATLAB\R2013a Student
  - Macintosh — Applications/MATLAB\_R2013a\_Student.app
  - Linux — /usr/local/MATLAB/R2013a\_Student



- (Custom installation only) Select the products you want to install in the Product Selection dialog box, and click **Next**

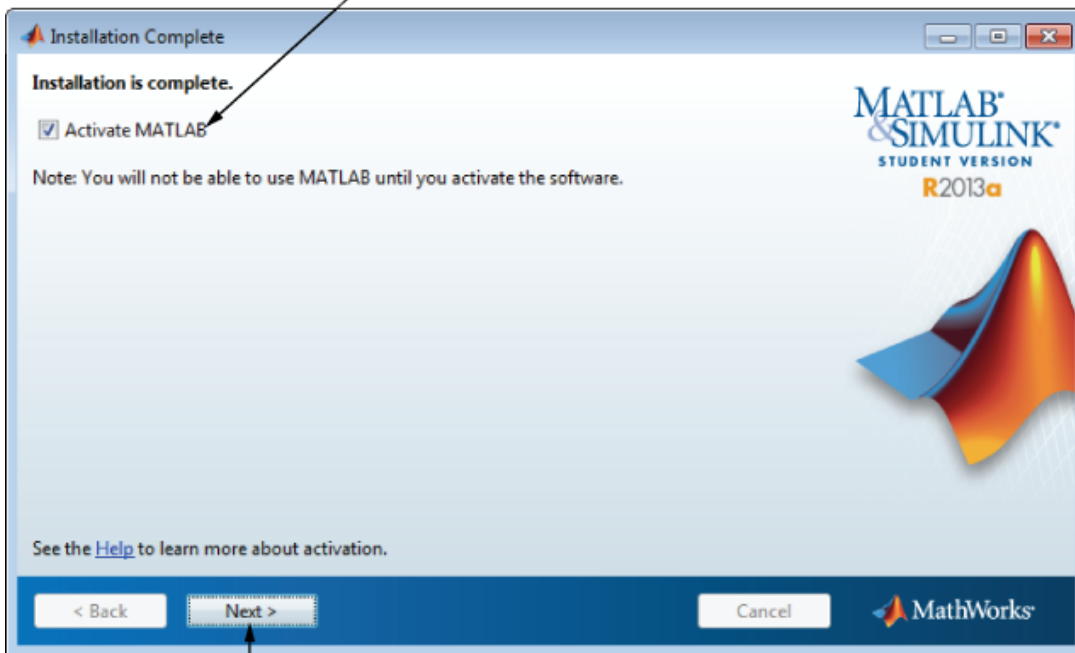


- (Custom installation only) Specify additional installation options in the Installation Options dialog box. On Windows systems, you can specify whether you want the installer to put a shortcut to the MATLAB program on your desktop. On Linux systems, you can specify whether you want to create symbolic links to the MATLAB executable. After making your choices, click **Next**.

- Review your installation choices in the Confirmation dialog box. To change a setting, click **Back**. To proceed with the installation, click **Install**.

- 9 When the installer is finished copying files to your system, it displays the Installation Complete dialog box. Choose whether to activate the software you just installed. MathWorks recommends activating immediately after installation because you cannot use the software you installed until you activate it.
- To proceed with activation, click **Next**.
  - To exit the installer without performing activation, clear the **Activate MATLAB** option and click **Finish** (the button label changes). You can activate later.

Leave this option selected to proceed to activation.



Click Next.

## Activation Procedure

Perform this procedure to activate the software you just installed. You cannot use the software until you activate it.

---

**Note** To use this procedure to activate the software, you must be connected to the Internet. If you are not connected to the Internet, see “When You Don’t Have an Internet Connection” on page 1-22.

---

- 1 Start the activation application. If you left the **Activate MATLAB** option selected on the Installation Complete dialog box, the activation application starts automatically. Other ways to start the application include:
  - Start MATLAB Student Version. If it needs to be activated, MATLAB starts the activation application automatically.
  - Navigate to the `matlabroot/bin/$ARCH` folder and launch the `activate_matlab.exe` program (`activate_matlab.sh` on Linux systems) where *matlabroot* is your MATLAB installation folder, and *\$ARCH* is a platform-specific sub-folder, for example: `matlabroot\bin\win64` for Windows platforms or `matlabroot\bin\glnx86` for Linux platforms.
- 2 Read about the activation process in the Activation Overview dialog box. *Activation* is the process that verifies licensed use of MathWorks products. This process validates the license and ensures that it is not used on more computers or by more users than the MATLAB Student Version License Agreement allows.

In most cases, activation is a two-step process:

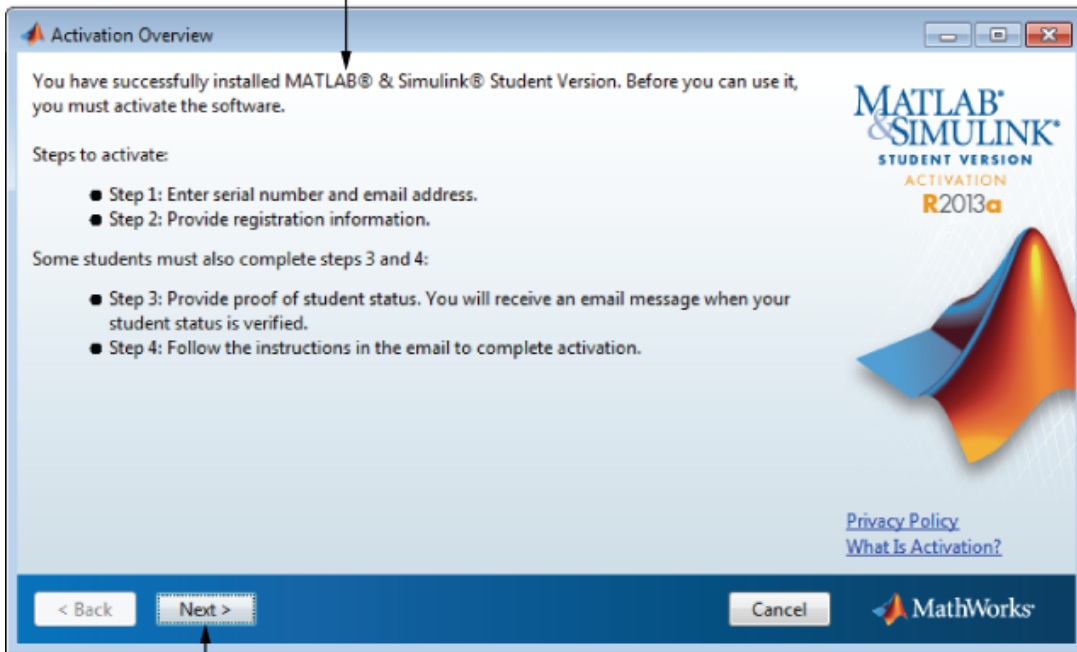
- Enter the product serial number and your email address.
- Provide other registration information.

You might also be required to provide proof of your student status. You can upload a digital image of your proof during activation, or provide it later. In this case, the software is only temporarily activated. To complete activation, check for an email from MathWorks indicating that your student status has been authenticated and follow the instructions in that email.

To proceed with activation, click **Next**.



Read this information about activation.



Click Next.

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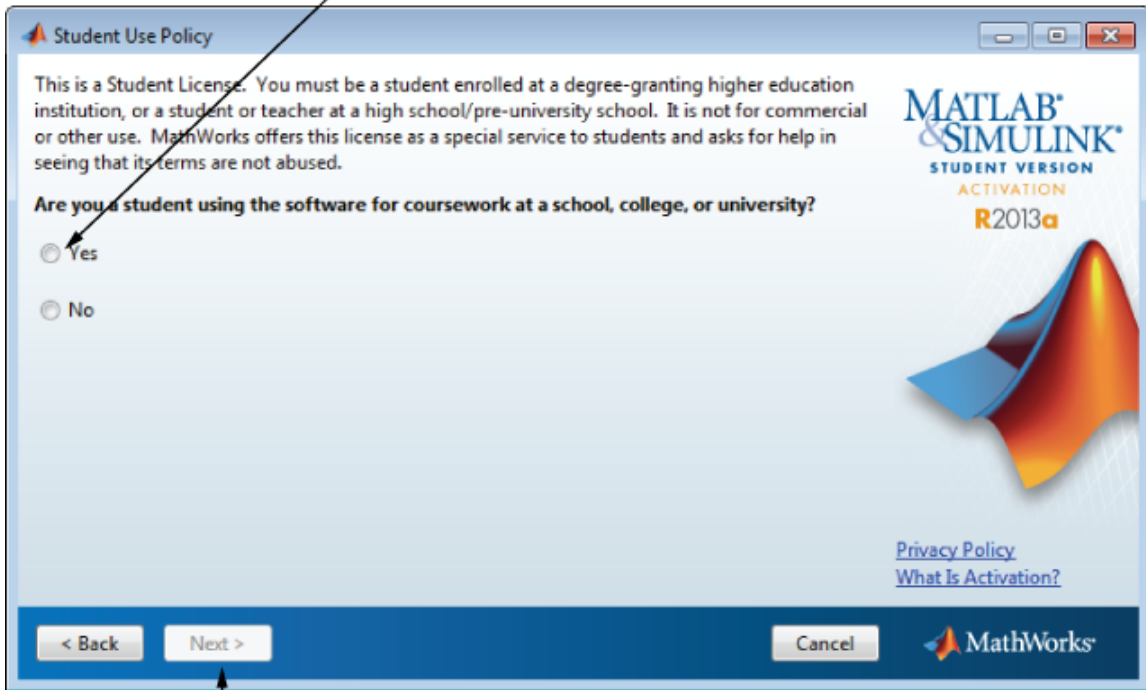
**Note** If you encounter a problem during the activation process, check [http://www.mathworks.com/academia/student\\_version/faq/index.html](http://www.mathworks.com/academia/student_version/faq/index.html) for more information.

---

**3** Verify that you are a student in the Student Use Policy dialog box:

- Select **Yes** if you are a student using the software for course work at a school, college, or university, and click **Next** to proceed with activation.
- Select **No** if you are not a student, and then click **Cancel**. You cannot use this software if you do not fit the description presented in this dialog box.

If you are a student, click Yes.



Click Next.

- 4 Enter the product serial number and your email address in the Serial Number and Email Address dialog box, and click **Next**.

Enter serial number and your e-mail address.

Serial Number and Email Address

**Step 1: Enter the product serial number and your email address.**

Serial number : 5555 - 5555 - 5555 - 5555 - 5555

The serial number is included on a label on the DVD package, or in an order confirmation email from [service@mathworks.com](mailto:service@mathworks.com).

Email : jstudent@mycollege.edu

Your email will retrieve an existing [MathWorks account](#) or create a new account.

This information, along with your machine ID (DISK\_SERIAL\_NUM=fc66c648), will be sent to MathWorks.

[Privacy Policy](#)  
[What Is Activation?](#)

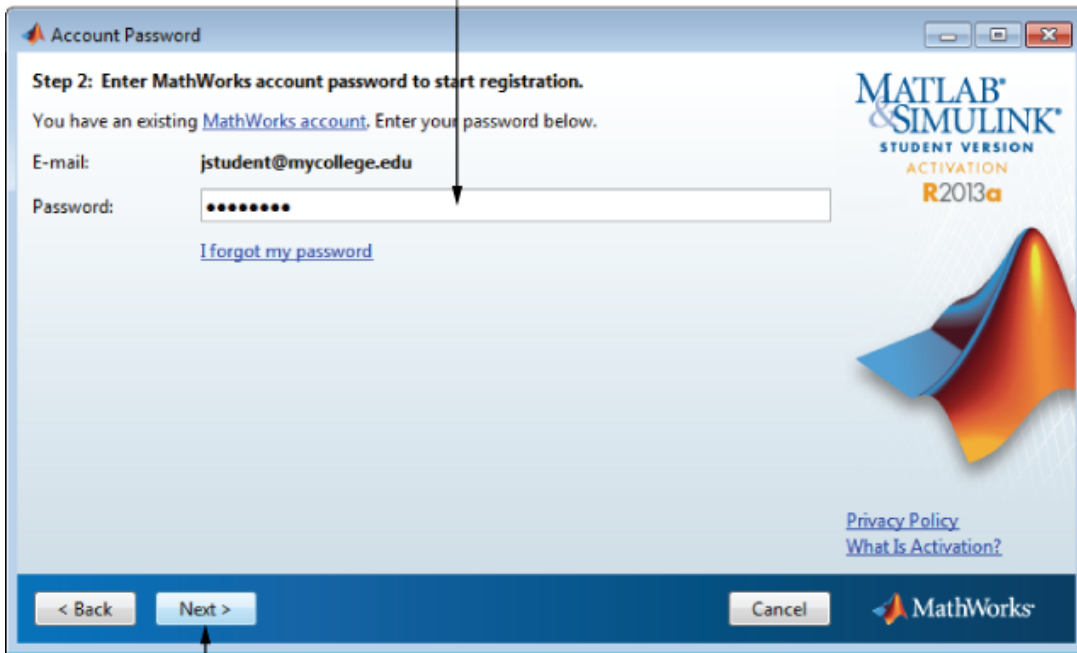
< Back    Next >    Cancel

MathWorks

Click Next.

- 5 Specify your MathWorks account password in the Account Password dialog box and click **Next**. The password should consist of a minimum of eight characters, with one uppercase character, one numeric character, and no special characters.

Specify your account password.



Click Next.

If you do not have a MathWorks account, the activation application creates one for you. In this case, specify the password that you want to use with your account in the Create Account dialog box, and click **Next**.

Specify a password to use with your MathWorks account.

**Create Account**

**Step 2: Create MathWorks account to register.**


A [MathWorks account](#) will be created for you with the email address and password below.

Email:

Password:

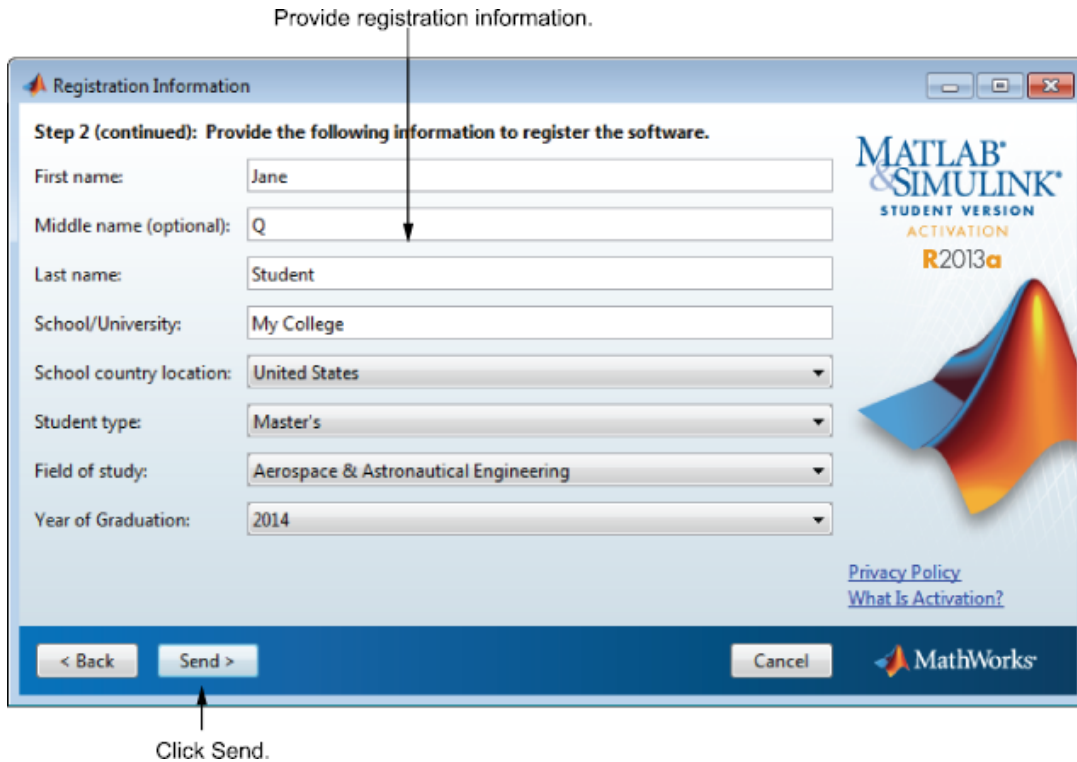
Retype password:

[Privacy Policy](#)  
[What Is Activation?](#)



Click Next.

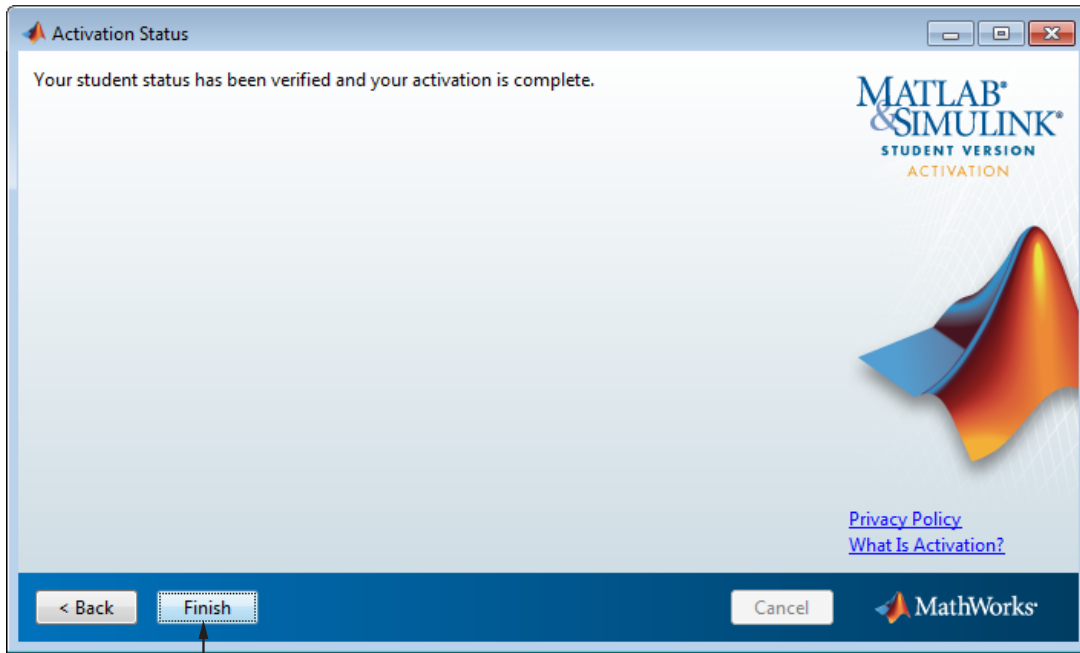
- 6 Provide information about yourself in the Registration Information dialog box and click **Send** to send the information to MathWorks.



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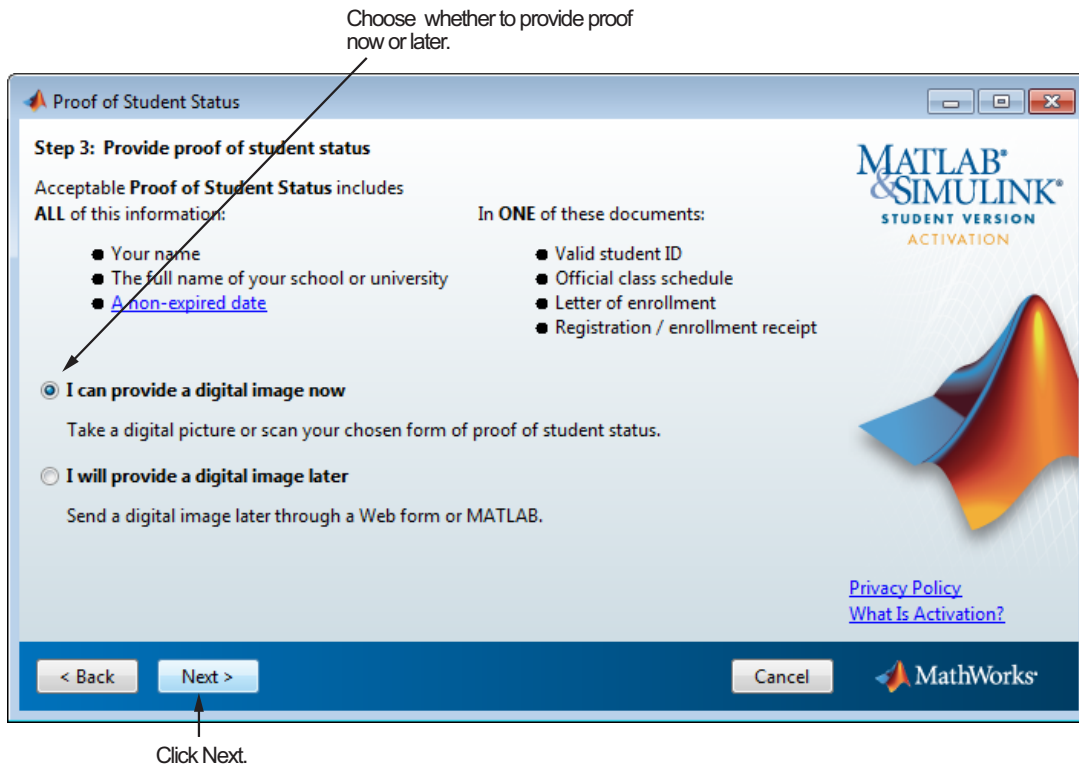
**Note** If MathWorks already has proof of your student status, sending registration information completes the activation process. The activation application displays the following Activation Status dialog box. Click **Finish** to exit the activation application and begin using the software. If you need to provide proof of student status, the activation application continues—see Step 7.

---



Click Finish.

- 7 If you need to provide proof of student status, the activation application displays the Proof of Student Status dialog box. If you have a digital image of your proof, select the **I can provide a digital image now** option and click **Next** to upload it. If you cannot provide proof of student status at this time, select **I will provide a digital image later** and click **Next**.



If you chose the **I can provide a digital image now** option, the activation application displays the Online Proof of Student Status dialog box. Specify the file name of the digital image of your proof of student status and click **Send** to send it to MathWorks.



Specify your student status image file.

**Step 3 (continued):**

Specify the file containing a digital image of your [proof of student status](#). The file format must be GIF, JPG, or BMP, and no larger than 2 MB.

Image Filename:


Acceptable **Proof of Student Status** includes **ALL** of this information:

- Your name
- The full name of your school or university
- [A non-expired date](#)

In **ONE** of these documents:

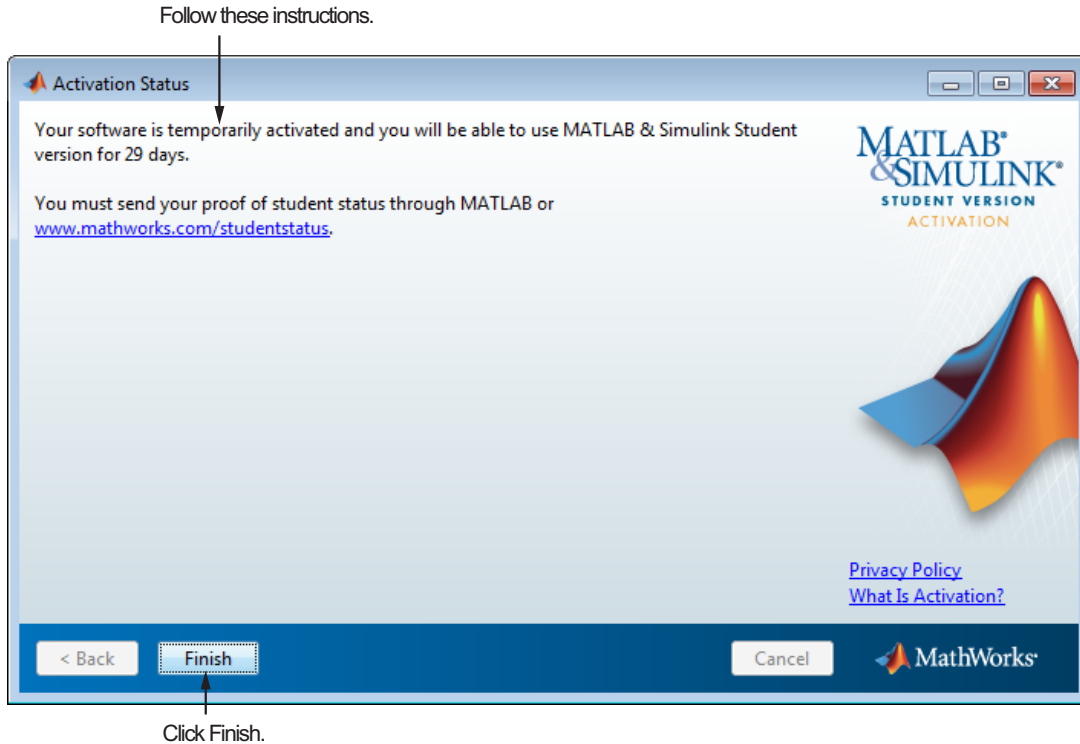
- Valid student ID
- Official class schedule
- Letter of enrollment
- Registration / enrollment receipt

[Privacy Policy](#)  
[What Is Activation?](#)



Click Send.

- 8 If you were required to provide proof of your student status, the activation process ends by temporarily activating the software. Click **Finish** in the Activation Status dialog box to exit the activation application and begin using the software. To complete activation, check for an email from MathWorks indicating that your student status has been authenticated and follow the instructions in that email.



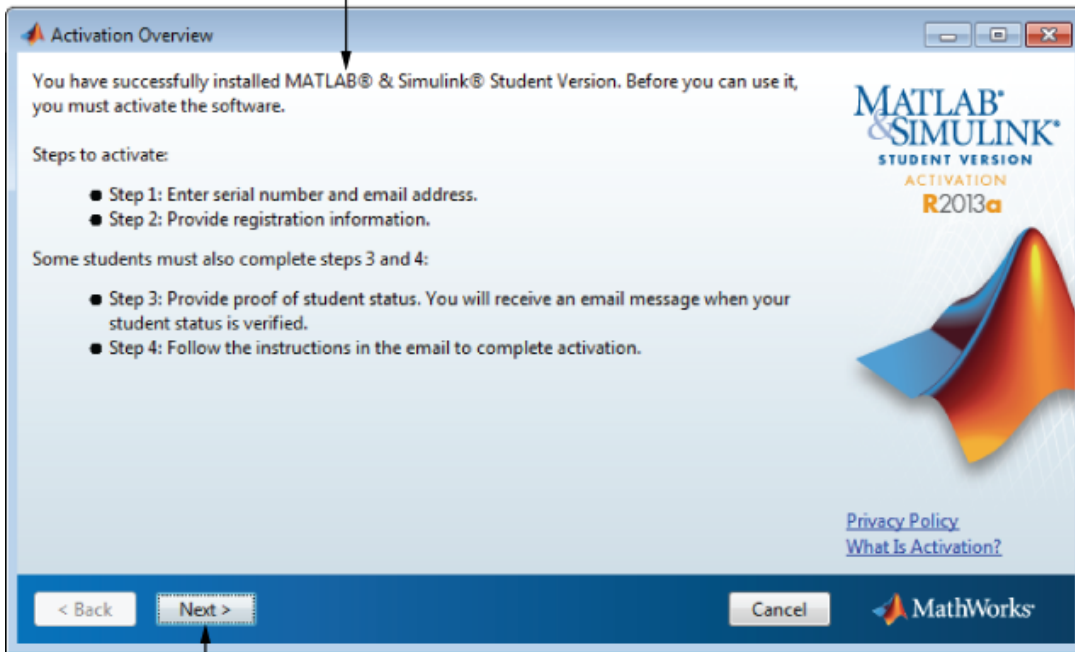
### When You Don't Have an Internet Connection

To activate your software using the activation application, you must be connected to the Internet. If you are not connected to the Internet, you can still run the activation application. In this case, the application provides you with all the information you will need to activate the software later, when you can log in to a computer with an Internet connection. Follow this procedure to get this information and print it.

- 1 Start the activation application. If you selected the Activate MATLAB option on the Installation Complete dialog box, the activation application starts automatically. Other ways to start the activation include:
  - Start MATLAB Student Version. If it needs to be activated, MATLAB starts the activation application.
  - Navigate to your MATLAB installation folder and open the activation application.
    - **Windows** — Double-click the `activate_matlab.exe` file in `matlabroot/bin/$ARCH` folder, where `matlabroot` is your MATLAB installation folder, and `$ARCH` is a platform-specific sub-folder, for example: `matlabroot\bin\win32`
    - **Linux and Macintosh** — Execute the `activate_matlab.sh` script in the `matlabroot/bin` folder.
    - **Macintosh** — Double-click the activation application icon in the MATLAB application package. To view the contents of the MATLAB application package, right-click (or Ctrl+click) the package and select **Show Package Contents**.
- 2 Read about the activation process in the Activation Overview dialog box. *Activation* is the process that verifies licensed use of MathWorks products. This process validates the license and ensures that it is not used on more computers or by more users than the MATLAB Student Version Software License Agreement allows.

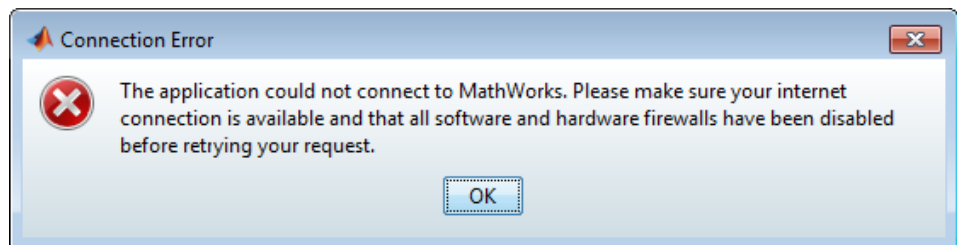
To proceed with activation, click **Next**.

Read this information about activation.



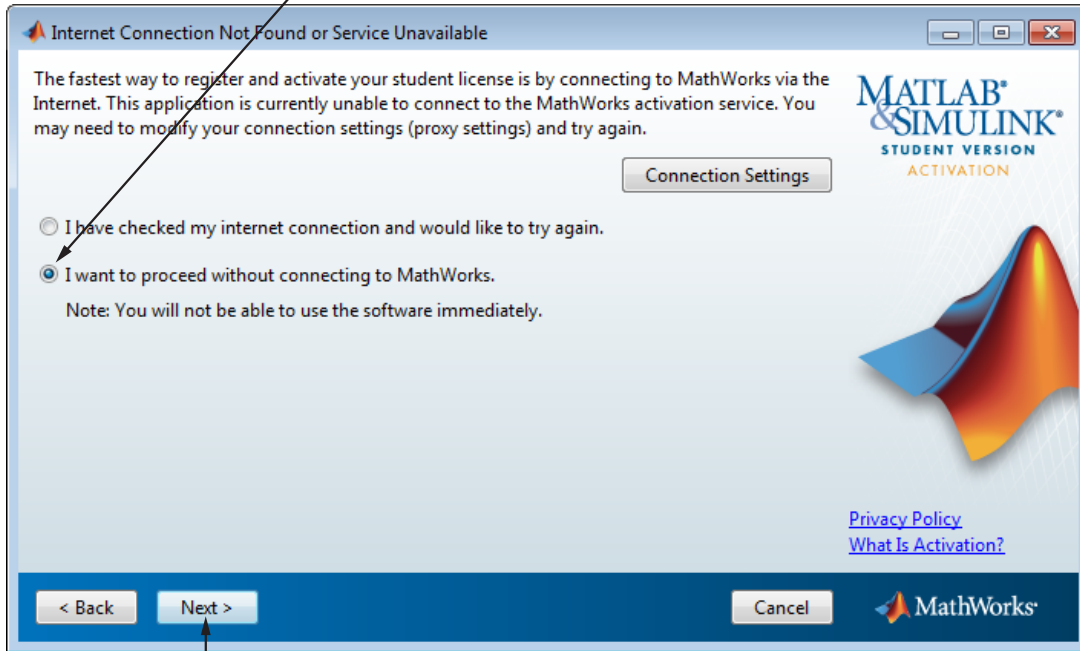
Click Next.

If the activation application cannot connect with MathWorks, it displays the Connection Error dialog box. Click **OK** to continue.



**3** Choose to the **I want to proceed without connecting to MathWorks** option and click **Next**.

Select this option to proceed with activation.

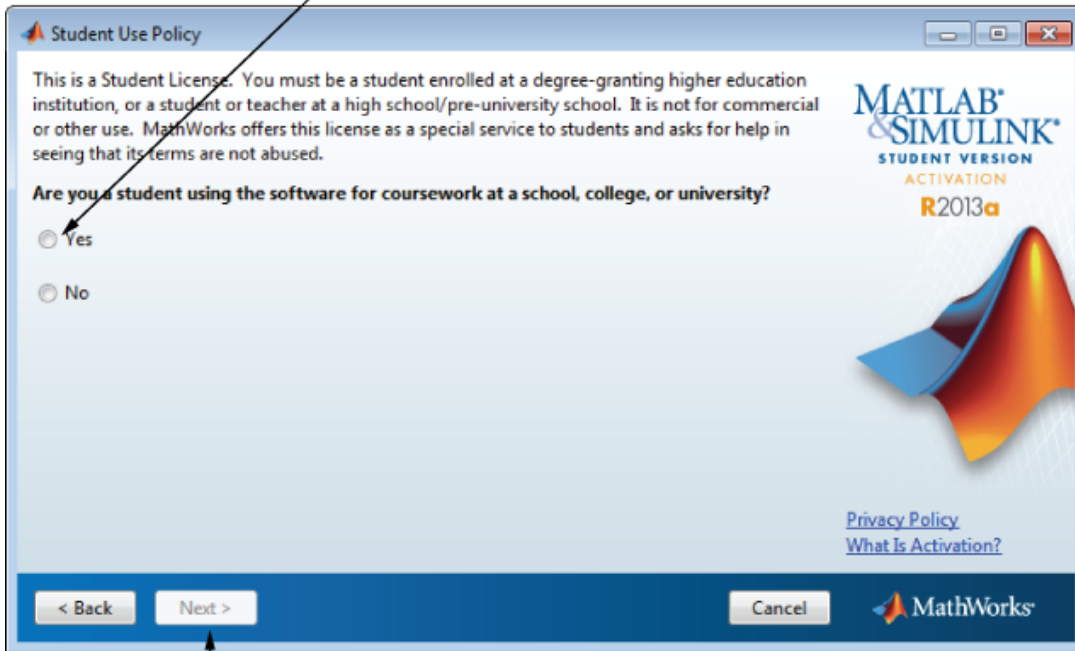


Click Next.

**4** Verify that you are a student in the Student Use Policy dialog box:

- Select **Yes** if you are a student using the software for course work at a school, college, or university, and click **Next** to proceed with activation.
- Select **No** if you are not a student, and then click **Cancel**. You cannot use this software if you do not fit the description presented in this dialog box.

If you are a student, click Yes.



Click Next.

- 5 Enter the product serial number and your email address in the Serial Number and Email Address dialog box, and click **Next**.

Enter serial number and your e-mail address.

**Serial Number and Email Address**

**Step 1: Enter the product serial number and your email address.**

Serial number : 5555 - 5555 - 5555 - 5555 - 5555

The serial number is included on a label on the DVD package, or in an order confirmation email from [service@mathworks.com](mailto:service@mathworks.com).

Email : jstudent@mycollege.edu

Your email will retrieve an existing [MathWorks account](#) or create a new account.

This information, along with your machine ID (DISK\_SERIAL\_NUM=fc66c648), will be sent to MathWorks.

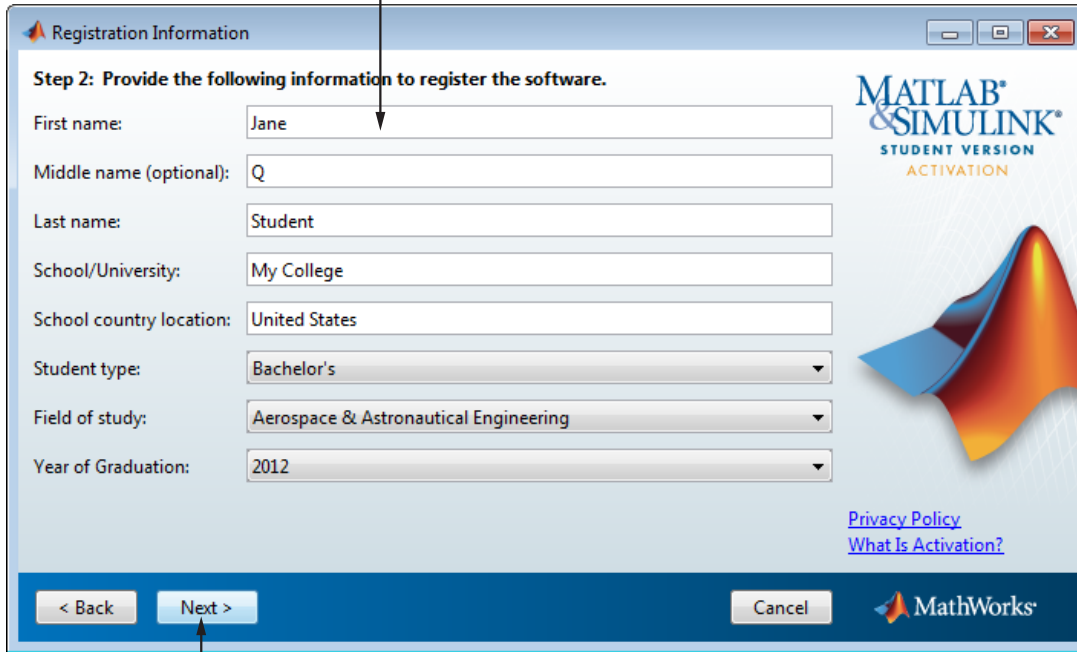
[Privacy Policy](#)  
[What Is Activation?](#)

< Back    Next >    Cancel    MathWorks

Click Next.

- 6 Provide information about yourself in the Registration Information dialog box and click **Next**.

Enter required information.



The image shows a Windows-style dialog box titled "Registration Information". The dialog has a blue header bar with the title and standard window controls (minimize, maximize, close). Below the header, the text "Step 2: Provide the following information to register the software." is displayed. The form contains several input fields and dropdown menus:

- First name: Jane
- Middle name (optional): Q
- Last name: Student
- School/University: My College
- School country location: United States
- Student type: Bachelor's (dropdown menu)
- Field of study: Aerospace & Astronautical Engineering (dropdown menu)
- Year of Graduation: 2012 (dropdown menu)

On the right side of the dialog, there is the "MATLAB & SIMULINK STUDENT VERSION ACTIVATION" logo and a 3D surface plot graphic. Below the logo are two links: "Privacy Policy" and "What Is Activation?". At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a blue background. The MathWorks logo is in the bottom right corner.

Click Next.



- 7 Click **Print** to get a copy of all the information you will need to activate the software when you visit a computer with an Internet connection and then click **Next**.

Print this information to help you activate later.

**Send Proof of Student Status**

**Step 3: Register and activate software at the MathWorks Web site.**  
Use the information below to create your MathWorks Account and register your software.

**MATLAB & Simulink Student Version Software**

**Registration and Proof of Student Status Instructions**

To activate your Student Version software:

1. Create a digital image of your proof of student status.
2. Upload the image at [www.mathworks.com/studentactivation](http://www.mathworks.com/studentactivation).

You will be contacted within three business days after we receive your information.

Acceptable proof of student status includes:

**ALL of this information:**

- Your name
- The full name of your school or university
- A non-expired date

**In ONE of these documents:**

- Valid student ID card
- Official class schedule
- Letter of enrollment on school or university letterhead
- Registration / enrollment receipt from your school or university

**Student Information for MathWorks**

**First name:** Jane

**Middle name:**

**Last name:** Student

**E-mail:** jstudent@mycollege.edu

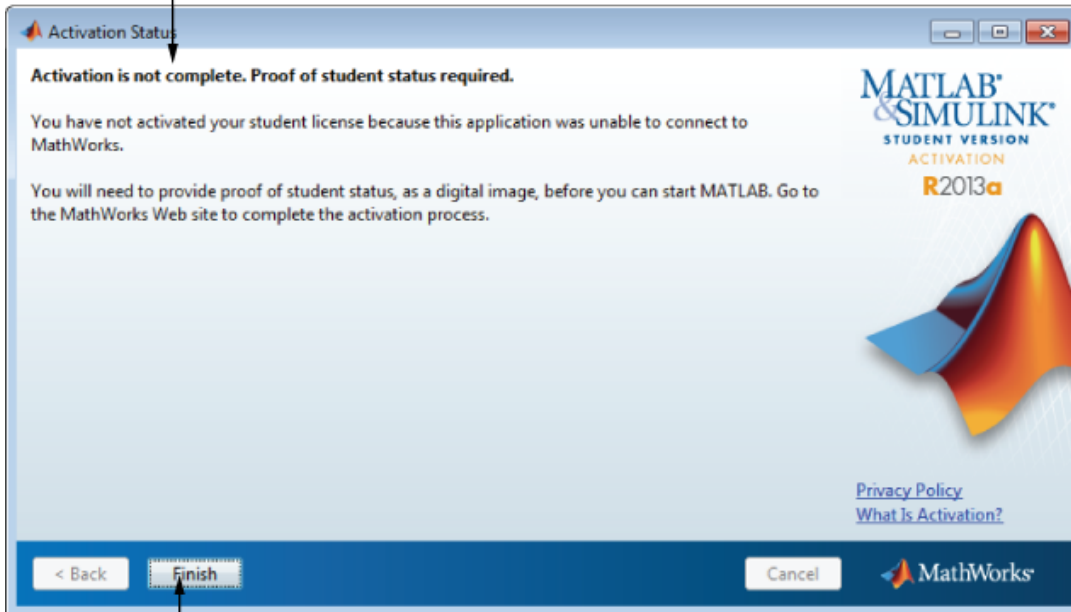
[Privacy Policy](#)  
[What Is Activation?](#)

< Back   Print   Next >   Cancel   MathWorks

Click Print.   Click Next.

- 8 Click **Finish** to exit the activation application. Without an Internet connection, you cannot activate the software. Bring the information you printed out to a computer with an Internet connection and complete activation by using the online registration form on the MathWorks website.

Note that the software is not activated.



Click Finish.

## Customize the MATLAB Environment

To customize MATLAB environment options, create a file named `startup.m` in the `matlabroot\toolbox\local` folder and add commands to it. For example, you can use the `startup.m` file to specify welcome messages, default definitions, or any MATLAB expressions that you want executed every time you invoke MATLAB. The `local` folder includes a sample startup file, named `startupsav.m`, that you can rename and use as a starting point.

Perform any additional configuration by typing the appropriate command at the MATLAB command prompt. For example, to configure the MATLAB Notebook, type `notebook -setup`. To configure a compiler to work with the MATLAB External Interface, type `mex -setup`.

## Start MATLAB Student Version

There are several ways to start MATLAB. The method you use to start MATLAB software depends on your platform.

- **Windows Systems:**

- On Windows 8 systems, go to the Windows Start screen or the Desktop and click the **MATLAB R2013a Student Version** icon.



- On Windows 7 systems, click the Windows Start menu, and click **MATLAB R2013a Student Version**.
- On Windows XP systems, click the Windows **Start** menu, and then select **Programs > MATLAB > R2013a**, and click **MATLAB R2013a**.
- If you chose to create a shortcut on your desktop in the Installation Options dialog box, you can double-click the MATLAB icon.



- Navigate to *matlabroot*/bin, where *matlabroot* is your MATLAB installation folder, and double-click *matlab.exe*.
- **Linux Systems**
  - Enter the `matlab` command at the system prompt. If you did not set up symbolic links on the Installation Options dialog box during installation, you must enter the full path name, *matlabroot*/bin/matlab, where *matlabroot* is the name of your MATLAB installation folder.
- **Macintosh Systems**
  - Navigate to your installation folder and double-click the MATLAB icon.



## Install Additional Products

To purchase and install additional products, go to the MathWorks Store at [www.mathworks.com/store](http://www.mathworks.com/store). After you purchase a product, you can download the product and its online documentation to your computer.

When you download a product, you receive a new copy of the MATLAB installation program that contains the software for the selected product. To install the product and its documentation, run the installation program by double-clicking the installer icon. Optionally, select the custom installation option during the installation if you want to verify that you are installing the correct products.

After you successfully install the product, all of its functionality and documentation are available to you when you start MATLAB.

## Mount the DVD on Linux Systems

On Linux systems, if your DVD drive is not accessible to your operating system, mount the DVD drive on your system.

Create a folder to be the mount point for it:

```
$ mkdir /dvd
```

Mount a DVD drive using the command:

```
$ mount /dvd
```

If your system requires that you have root privileges to mount a DVD drive, these commands work on most systems:

```
$ su root  
# mount -t iso9660 /dev/dvd /dvd
```

To enable nonroot users to mount a DVD drive, include the `exec` option in the entry for DVD drives in your `/etc/fstab` file, as in the following example:

```
/dev/dvd /dvd iso9660 noauto,ro,user,exec 0 0
```

This option is often omitted from the `/etc/fstab` file for security reasons.

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