## **CISC2005 Lab 1 – Week 1**

**INSTRUCTIONS FOR CISC2005 Lab 1**

* **Follow the instructions below to install "cygwin" (Linux system) into your computer**
* **Downloadable Cygwin Installer**[**"setup-x86\_64"**](https://www.cygwin.com/setup-x86_64.exe)
* **Select the Base module, together with the GNU C/C++ compiler(s) to facilitate your C/C++ programming work in your system.**
* **Capture some screen shots of your successful installation of cygwin in your Windows system, including at least a) the use of the "cygwin termial" to compile and run a "Hello, CISC2005 program in C", and b) the path of your installed cygwin in your computer system.**

### **Installing "cygwin" Basics**

[Cygwin](https://www.cygwin.com/) as Linux Machine on Windows

##### [**What is Cygwin used for?**](https://searchdatacenter.techtarget.com/definition/Cygwin)

* Cygwin is an open source collection of tools that allows Unix or Linux applications to be compiled and run on a Windows operating system from within a Linux-like interface.
* Source [What is Cygwin? - Definition from WhatIs.com - SearchDataCenter](https://searchdatacenter.techtarget.com/definition/Cygwin)

##### [**How do I download and install Cygwin?**](http://www.mcclean-cooper.com/valentino/cygwin_install/)

* Installation Notes:
  1. Download setup.exe from [www.cygwin.com](http://www.cygwin.com/).
  2. Run application from your local harddrive.
  3. Chose next on first screen.
  4. Select "Install from Internet" and click next.
  5. Enter preferred installation (Root) directory and click next.
  6. Enter a temporary installation directory and click next.

[More items...](http://www.mcclean-cooper.com/valentino/cygwin_install/)

* Source [How to install Cygwin - mcclean-coope](http://www.mcclean-cooper.com/valentino/cygwin_install/)

##### [**How do I select packages to install in Cygwin?**](https://ptolemy.berkeley.edu/ptolemyII/ptII2.0/cygwin.htm)

* Installing Cygwin from the self-extracting executable

1. Most users will. ...
2. Run setup.exe.
3. Click on Next.
4. Select Install from Local Directory and click on Next .
5. Keep the default of C:\cygwin for the Select Root Install Directory . ...
6. Keep the default for Local Package Directory and click on Next .

[More items...](https://ptolemy.berkeley.edu/ptolemyII/ptII2.0/cygwin.htm)

* Source [Cygwin Installation - Ptolemy Project - UC Berkeley](https://ptolemy.berkeley.edu/ptolemyII/ptII2.0/cygwin.htm)

##### [**How do I open Cygwin terminal in Windows?**](https://smallbusiness.chron.com/run-cygwin-programs-cmdexe-50317.html)

* Click the Windows "Start" button, type "cmd" in the Search field and press "Enter" to launch the command prompt. Use the change directory command to navigate to the "cygwin\bin" folder. If that folder is in "C:\Programs Files," type "c:\program files\cygwin\bin."
* Source [How to Run Cygwin Programs From Cmd.exe | Chron.com](https://smallbusiness.chron.com/run-cygwin-programs-cmdexe-50317.html)

##### [**Cygwin 2.11.2 Download - TechSpot**](https://www.techspot.com/downloads/6590-cygwin.html)

* Nov 12, 2018 - Cygwin is a large collection of GNU and Open Source tools which provide functionality similar to a Linux distribution on Windows. A DLL (cygwin1.dll) which provides substantial POSIX API functionality. ... The Cygwin DLL currently works with all recent, commercially released x86 32 bit ...
* Source <https://www.techspot.com/downloads/6590-cygwin.html>

##### [**Cygwin User Guide**](https://cygwin.com/cygwin-ug-net/cygwin-ug-net.html)

* Source <https://cygwin.com/cygwin-ug-net/cygwin-ug-net.html>

##### **Video: cygwin Installation**

* How to Install Cygwin on Windows and How to Install EDirect (6.25 min)
  + Source <https://youtu.be/hTzqsb1eD10>
* How to Install Cygwin on Windows (13.47 min)
  + Source <https://youtu.be/hh-V6el8Oxk>