

Faculty of Science

**Course**: CSCI 1060U: Programming Workshop

**Lab:** #9

**Topic:** Understanding Inheritance

**Introduction**

Your textbook, Absolute C++, defines inheritance as *“…the process by which a new class – known as a derived class – is created from another class, called the base class”* [Chapter 14].

In this lab you will demonstrate that you understand inheritance by implementing a program of your choosing that contains a base class, a derived class, a protected member variable (in the base class), a redefined function and an overridden function.

**Activity #1**

Since we are getting close to the end of the semester, this lab is designed to give you some flexibility to create a program of your choosing (as long as it isn’t a duplicate program of an example from class, or the same as another student in the class). The only requirements are that your program needs to include:

* ~~A base class~~
* ~~A derived class~~
* ~~A protected member variable (in the base class)~~
* A redefined function
* ~~An overridden function~~

You should submit all C++ source files for this lab.

***NOTE:*  This is an individual lab and all source code must be written independently.**

**For this lab and all future labs you are require to comment your source code and use the code style guidelines discussed in the lectures. Failure to follow code style guidelines will result in marks being deducted – even if the lab solution is implemented correctly.**