

# MAT 101 — Introduction to Computer Programming (C++)

Handout #21, April 21, 2005

Today's tasks:

1. Quiz #2 - Classes
2. Classes Review - Again
3. The dot operator . (p241)
4. Using data in a class
5. Calling a function (dot operator)
6. The scope resolution operator :: (p241)
7. Defining a function belonging to a class (p240)
8. Encapsulation (p242–243)
9. Public Vs. Private (p243–247)
10. Classwork On Paper: Begin implementation of a two dimensional Point class that has two data values, x and y. These x and y values can be any values (not just integers). Set up the class definition completely and show it to me for correctness. With that complete, you may begin writing the member functions. Do not worry about “main” yet. Be sure that your class has the following functions and that the data is fully encapsulated:
  - a set function which sets both the x and y values
  - a getX function which returns the x value
  - a getY function which returns the y value
  - a translate function which modifies x and y by adding an incoming x and y value