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

Review Sheet #1

These items will all be covered on the first exam. I've placed page numbers which should give you an idea where to look back for this material. You can use previous handouts to help you locate material as well.

- logging into albert, using unix commands, using emacs, Makefiles

- types, valid identifiers, assignment, initializing

- cout and cin

- arithmetic with literals and variables

- integer versus floating point arithmetic (p22)

- lvalue vs. rvalue

- type casting (p23)

- incrementors, decrementors (p25)

- Input (cin) and Output (cout)

- Using Comments (// and /*) (p35)

- Boolean expressions and comparisons $(\&\&, ||, ==, <, >, <=, >=)$ (p44+)

- Short-circuit evaluation (p51)

- if-else (p54+)

- switch statements (switch, case, break, default) (p62)

- Loops, while, do-while, for, break, continue (p66+)

- functions (predefined and using include) (p96+)

- programmer defined functions

- scope (local variables vs global variables)

- functions: call by value, call by reference (p135+)

- functions: overloading and default arguments (p151+,159+)

- strings (cin,getline, arithmetic, comparisons) (p387+)