# **General Microsoft Excel Instructions**

#### Cell Addresses

- Click on a cell, Address = Column Letter & Row Number (e.g. C6)
- Cells in another workbook (e.g., Data), Address = SheetName!Cell (e.g., Data!C6)
- Range of cells, Address = UpperLeft:LowerRight (e.g., A1:A20, A1:B20, Data!A1:B20)

Cursor	Nickname and function
47	"Swiss cross" Used for selecting cells
+	"Crosshair"  Used for copying formula or extending a data series.
+1/2	"Click and drag" cursor  Cuts and pastes selected area – generally not recommended.

## **Entering Data**

- Click on a cell and begin typing; press "ENTER" when finished.
- Correcting Data: highlight the cell and retype OR double click the cell to edit.

## Copying Data (with keyboard)

- Highlight the cells to be copied: hold "SHIFT" and use the arrows to choose your range. Use "CTRL" to auto-select cells in your chosen direction.
- Copy with "CTRL"+"c". With the directional arrows, outline the top left of the desired cell range location; paste with "CTRL"+"v".
- Excel automatically moves all of the cells. However, if you select more cells than were in the original range, Excel begins repeating cells.

# Copying Data (with mouse)

- Highlight the cells to be copied: drag the cursor, holding the left mouse button.
- Right click the cell range and click the "Double-Page" (Copy) icon. Select the top left of the desired cell range location; right click the "Clipboard" (Paste) Icon.

# Copying from One Worksheet to Another

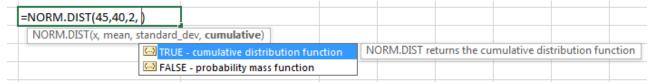
• Follow the instructions in *copying data*; highlighting new cells in a second worksheet.

#### **Formulas**

• In your desired cell, type "=". Excel will now place the result of any calculation in this cell.

#### **Functions**

- In your desired cell, begin a formula by typing "=" and begin typing the name of the function.
  When a menu pops up, you can arrow down to the desired function and press "TAB" to
  autocomplete the function name. "SPACE" exits the function name don't press space! Make sure
  you start the function argument with "(".
- Excel uses the same function notation you learned in Algebra I and Trigonometry... f(x) where the first part is a function name (like sin short for "sine"), parentheses () to denote the argument, and some value for the argument, like x.
- However, Excel allows you to have multiple arguments separated by commas, and everything
  inside of an Excel function argument must be a number, a cell reference, or another function.
  Literal strings are also allowed by placing single quotation marks.
- Excel also tells you what kind of value it expects in each argument. Press "TAB" to accept a selected argument.



### Cell References

- Excel allows you to reference other cells (for example, cell A1) by typing the cell location, i.e.
   "A1", in any formula.
- There are four kinds of cell references that matter especially when copying a formula:
  - o A\$1: locks in row 1.
  - o \$A1: locks in column A.
  - \$A\$1: always refers to A1.
  - o A1: free reference. Excel will use the relative location.
- When typing a cell reference or after clicking on it, you can cycle through cell reference types with "F4" (or type in the "\$" manually).

## **Copying Formulas**

- If using cell references, be sure to use the appropriate kind! (i.e., A\$1, \$A\$1, A1)
- Enter the formula in a cell (press Enter when finished). Click on the cell. Copy the formula, as
  described above in copying data.
- Alternative for adjacent cells: Enter the formula in a cell. Place the pointer on the square in the lower right of the cell. Drag the + sign ("crosshair") over the cells where the formula is to be copied.
- Cleverer alternative: double-click the tiny square at the bottom right of a cell (after "crosshair" appears)!

This is only a guide to get you started! Excel has many rich features.