Excel for Grade Management Part One

Tor Cross, Teaching Resources Center

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Excel Basics

Every cell in Excel can contain text, a number, or a formula.

Every cell is uniquely identified by a letter+number combination based on its row and column (e.g., the top left cell is cell A1)

Entering Text

- 1. **Click** on the cell **B1**
- 2. Type the number '1'
- 3. To accept the entry you have a number of choices:
 - 1. Hit the **Enter** key the text has been recorded and your cursor was moved down one cell

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- 2. Hit the **Tab** key the text has been recorded and your cursor was moved across one cell
- 3. **Click** the little **green arrow** on the 'Formula Bar' (under the tool bars) the text has been recorded and your cursor remains in that cell

Selecting Multiple Cells

There are many ways to select multiple cells. Here is a selection:

- Select an entire column (or row) by clicking on the gray tab that identifies that column.
 Move the cursor up to the letter B and click.
- 2. **Select all** by clicking on the **empty gray box** in the corner between A and 1.
- 3. Select a **continuous block** by **clicking** and **dragging** the cursor from the top left cell in the block

to the bottom right cell in the block. Note that the cell you started in does not turn to the same 'highlighted' color as the others – don't panic! The entire block is selected.

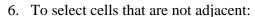
 Select a continuous block of columns (or rows) by combining technique 1 and 3.
 Click and drag across the

5

7 8

column identifiers.

- 5. If the block is too large to conveniently click and drag across (e.g., if it extends over more than one page) there is an easy way to select it:
 - a. **Click** into the **top right-hand cell** in the block.
 - b. Use the **mouse to scroll** to the last row in the block
 - e. Hold down the **Shift Key** on the keyboard
 - d. **Click** into the **bottom left cell** in the block



- a. Select the first cell (block or column or row)
- b. Hold down the **CTRL Key** on the keyboard (on Mac, use the Apple Key)
- c. Select the **second cell** (block or column or row)

Practice what you know: Select Rows 3, 4 and 5. Now select cells B3 through D17.

Fill, Fill Series, and Counting

Fill is a function that allows you to rapidly copy information from one cell to many others.

- 1. **Type** the number 1 in cell **B1**
- 2. Move the **mouse** to the **bottom right-hand corner** of cell B1 note the cursor changes into a **small black cross**.
- 3. Click and drag down a few cells
- 4. Let up on the mouse button
- 5. You should see a column of 1's

Fill Series. Excel is set up to recognize a number of common series.

For example, days of the week, and months of the year.

- 1. **Type** the word Monday into cell **C1**
- 2. Move the mouse to the **lower right-hand** of cell C1 to find the small black cross.
- 3. **Click and drag** across a few cells
- 4. Let up on the mouse button
- 5. Excel will also imitate formatting if you wrote the initial word in all caps, for example, or if you abbreviated it.



Counting. You can use Fill to count but you must give Excel two numbers to start with to establish what units you are counting by.

- 1. **Type** 0 in cell B3
- 2. **Type** 5 in cell B4
- 3. **Highlight** (or select) **both cell** B3 and B4
- 4. Move the cursor to the lower right corner of cell B4 until you see the **black cross**

Wodeks for Thursday Fridon

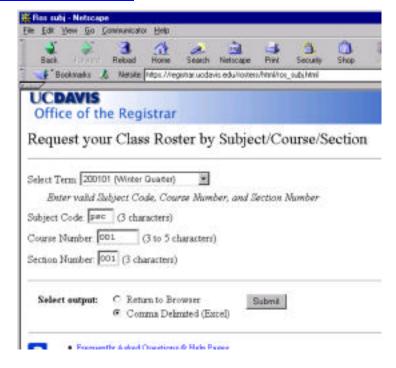
- 5. Click and drag down
- 6. You should be counting by 5's

Practice what you know: Type "Midterm 1" in a cell and **fill** to create headings for 3 midterms.

Download a Roster

To download a roster, you will need your campus Kerberos ID and password. You may only download rosters for classes where you are the instructor of record. There are two ways to download a roster, directly from the Registrar's web site and through MyUCDavis. Here is the procedure for using the Registrar's site.

- 1. Open a **web browser** (Netscape or Explorer)
- 2. Type in the **URL**: http://registrar.ucdavis.edu/rosters/
- 3. You will be prompted to **login**
- 4. Select to download your Roster by **Subject/Course/Section**
- 5. Type in the **Subject Code** (department code)
- 6. Type in the **Course Number** (include leading zeros if the course number is less than 3 digits)
- 7. Type in the **Section Number** (001 is the default)
- 8. Choose the **radio button** next to **Comma Delimited** (Excel)
- 9. Click **Submit**
- 10. Click Save File...
- Note where you are saving the file and what name it is being given.



To download a roster through MyUCDavis, follow this procedure instead:

- 12. Open a **web browser** (Netscape or Explorer)
- 13. Type in the URL: http://my.ucdavis.edu/
- 14. You will be prompted to **login**
- 15. Click the Course Management tab
- 16. Click on **Course Rosters**
- 17. For "Select output," choose "Comma delimited (Excel)"
- 18. **Choose the course** you want to download from the selection box, and click the "**submit**" button..

Cleaning up the Roster

Clearing Columns

- 1. **Select** the first **3 rows** of the roster by clicking on the gray number 1 and dragging down to the gray number 3. This should just be the course identifying information.
- 2. Click Edit>Clear>All

Note that the contents have been cleared, but the rows are still there.

Contrast this with 'delete':

Deleting Columns

- 1. **Select Row 1** by clicking on the gray number 1
- 2. Click **Edit>Delete**

Note that the entire row was deleted and the remaining rows were moved up.

Practice what you know: Column A is a count of students in the class, delete it.

Changing Columns

Resize Columns: We can't see the entire student ID number (now in Column A). We need to make that column wider. Here are two ways of doing that:

- 1. **Hover** the cursor on the **gray bar between the letters A** and **B** until a double headed arrow (a push me pull you) appears.
- 2. **Click and drag** toward the **right** to enlarge Column A Note that Column B does not change size.



OR

1. **Hover** until you see the same push-me-pull-you and **double click**.

This automatically adjusts the column to the width of the widest cell in that column.

Hide Unwanted Columns:

There are some columns (or rows) of information, such as the students' class and major, that you do not need to have visible. Let's hide that information. NOTE that this information is not deleted and can be unhidden at any time. Anyone who can access this spreadsheet can unhide them - so don't email this out to students thinking that you have removed the information.

- 1. **Select columns** E and F
- 2. Click Format>Column>Hide

To unhide the columns,

- 1. **Highlight the columns on either side** of the hidden column (you can tell where one is hidden as there will be a 'jump' in the alphabetical labels of the columns)
- 2. Click Format>Columns>Unhide

Setting Up Columns for Your Grades:

Let's set up the column titles for the grades you will be entering over the quarter.

- 1. Click into **cell I3** the first empty cell beyond the student identification information.
- 2. Type the Title "Midterm 1"
- 3. In the next cell over (J3) type "Midterm 2" (or use Fill)
- 4. In **K3 type** "Paper"
- 5. In **L3 type** "Final Exam"
- 6. Lastly, in **M3 type** "Total Score"

SAVE YOUR WORK!

The first time that you save this file, you will want to change the file type from .CSV to Excel Worksheet. Use the 'Save as type' menu in the save dialog box.



Create a 4 Digit ID

For posting grades, we need to shorten the ID number so that only the last 4 (or 6) digits are visible. Here is one way of doing that. We will discuss another way in the section on Functions.

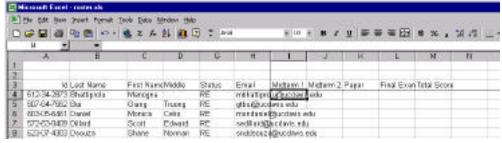
- 1. Select Column A
- 2. Hover the **cursor on the gray bar** between the letters A and B and adjust the width of column A to be smaller by **clicking and dragging to the left**.
- 3. Choose to **Right Align** using the hot button
- 4. Fine tune the width until only the desired number of digits is visible.



Freeze Panes

When you are dealing with a large class it can be invaluable to keep the titles of the columns and the names of the students visible at all times. Here is an easy way:

- 1. Click into **cell I4** the first empty cell after all of the student identifying information, the cell where the first student's score on Midterm 1 will be entered.
- 2. Click Window>Freeze Panes



3. Thin black lines should appear to the top and right of that cell – these indicate that no matter where you scroll on the worksheet, the contents of these cells will remain visible.

Formulas and Functions

Formulas and Functions take advantage of Excel's love of numbers and makes Excel do some work! Formulas are generally made up by you, using the basic mathematical function keys (add +; subtract -; multiply *; and divide /). Functions are preprogrammed into Excel and are numerous. For example, there are functions programmed to calculate averages, standard deviations, even t-tests.

Formula Grammar

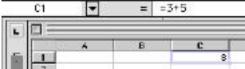
All formulas and functions start with an equals sign (=). This indicates to Excel that it will need to do some calculations. What Excel will display in the cell will be the result of the formula rather than the formula itself.

Formulas and functions generally reference other cells on the worksheet. The general grammar rules here are:

- 4. Enclose cell references in parentheses
- 5. Indicate a range of cells by listing the first and last cell separated by a colon

Simple Formulas

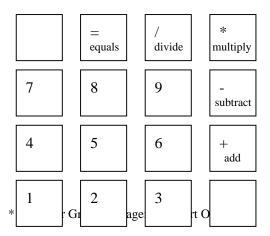
- 1. Choose a nice blank cell and type 3+5
- 2. Hit the **enter** key. Nothing exciting happens. Excel just displays what you typed.
- 3. Choose another blank cell and type =3+5
- 4. Hit **enter**. Excel got the hint to do some work and displays the answer to your formula.
- 5. **Click** on the cell displaying the answer (8) and look up at the **formula bar**. This allows Excel to show you both
 - the answer (in the cell) and the formula used (in the formula bar)



+ - * / Keyboard

The key strokes for equals (=) and plus (+) are pretty simple, they are located on one key on the top right of the key board, just to the left of the backspace (or delete) key. The minus (-) key is one to the left of that and does not require the shift key, next to the number 0. For multiplying, use the asterisk (*) above the number 8. For divide (/) use the slash under the ? key, next to the key for the period.

Alternatively, all the keys you need are also clustered around the 'extra' number pad on the right hand side of standard keyboards.



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Practice what you know: Type a formula that calculates how much you would be owed if you were paid \$60 an hour for the office hours you hold in a week.

Order of Operations

Before we tell Excel what we want to compute, let's quickly refresh some math skills! In any equation, there is an order in which the operations are carried out:

Parentheses

Exponents

Multiplication

Division

Addition

Subtraction

Here's an example: 3 + 4 * 5 = ?First we must do the multiplication 3 + 20 = ?Then we do the addition 3 + 20 = 23

If we did the addition first: 3 + 4 * 5 = ?We would get 7 * 5 = ?And then 7 * 5 = 35

Clearly, there cannot be two correct answers to any equation. The second attempt here would be correct if we added some parentheses:

$$(3+4)*5=?$$

Practice what you know: Type in the formula =3+4*5 and see if we got it right. Now add the parentheses (above the 9 and 0 keys).

Decimals

The second skill I want to refresh is the use of decimals; particularly the use of decimals as a multiplier. For most grade books, we want to calculate a final score to which each assignment contributes some percent. The easiest way to do that is to multiply each of the assignment scores by the decimal equivalent and add them all together. This only works if all the assignments are reported on the same scale or out of the same point value.

Compute Final Score:

This class has 3 exams and a paper. I want the first two exams to be worth 20% of the final grade, the paper to be worth 35% of the final grade and final exam to be worth 25% of the total grade. As long as those percents add up to 100 and all the assignments are graded on a 100-point scale, we can calculate any combination.

- 1. Click into the cell that will hold the total score for the first student (M4). Be sure that you are scrolled all the way to the top of the list of students by checking your row numbers.
- 2. Type an equals sign '='
- 3. Type an open parenthesis '('
- 4. Using the mouse, **click** into the **cell** that will hold this **student's score** on the **first** exam (**I4**)
- 5. Type a multiply sign '*'
- 6. Type the decimal value of this assignment '0.2'
- 7. Type a close parenthesis ')'

We have the first term completed! Now let's add in Midterm 2.

- 8. Type a plus sign '+'
- 9. Type an open parenthesis '('
- 10. Using the mouse, **click** into the **cell** that will hold this **student's score** on the **second exam (J4)**.
- 11. Type a multiply sign '*'
- 12. Type the decimal value of this assignment '0 . 2'
- 13. Type a close parenthesis ')'

Getting the hang of it?

- 14. Type a plus sign '+'
- 15. Type an open parenthesis '('
- 16. Using the mouse, **click** into the **cell** that will hold this **student's score** on the **paper** (**K4**).
- 17. Type a multiply sign '*'
- 18. Type the decimal value of this assignment '0.35'
- 19. Type a close parenthesis ')'

Practice what you know: Finish up the term for the final exam on your own

Check your formula with the one below. Note that the formula shows up in two places – in the cell you are filling and in the 'Formula Bar'. As soon as you type 'enter' and accept the formula, it will be replaced in the cell by the result of the formula. The Formula Bar, however, will always display the original formula.



Yes, I know that we don't strictly need parenthesis in that formula. But I think it makes it easier to interpret!

Use **Fill** to fill the formula for the rest of the students in the class.

DON'T TYPE OUT THIS FORMULA FOR EVERY STUDENT!!!! Here's how:

- 1. Click in the cell where you have created this formula (M4)
- 2. Hover the mouse on the lower right corner until you see the small black cross
- 3. **Click** and **drag** down through the rows of all your students.

If you have a large class, it can be hard to click and drag that far – here's an alternative:

- 1. Click in the cell where you have created this formula (M4)
- 2. **Scroll** down to the **end** of your roster
- 3. Hold down the **Shift Key**
- 4. **Click** in the **cell** which corresponds to where the **last student's Total Score** should be. All the cells in that column should be highlighted.
- 5. Click Edit>Fill>Down

Check out your formula by typing in some scores for the students. See how the results automatically update as you enter the data. If you change a score, that change will immediately be reflected in the Total Score column.

Using Functions - Mean, SD, Min, Max, etc

Function game:

AVEDEY AVERAGE

AVERAGEA

BETACIST

DETAIN

CHIDIST

CHEINY

CORREL

CHETEST

CONFIDENCE

BUNIONDIST

Functions are formulas that Excel already knows. To take a look at some of the functions, let's click into a nice empty cell and click Insert>Fuction...

Here is the dialog box that appears. Think of the left hand column as books and the right

hand column as pages in those books. For example, if we click on Statistical in the left hand column, all the statistical functions that are available appear in the right hand column. Click cancel as we were just looking!

exte Function

Function gelegory:

Financial

Date & Time

Math 8. Trig

Statistical

Database

Information

Text

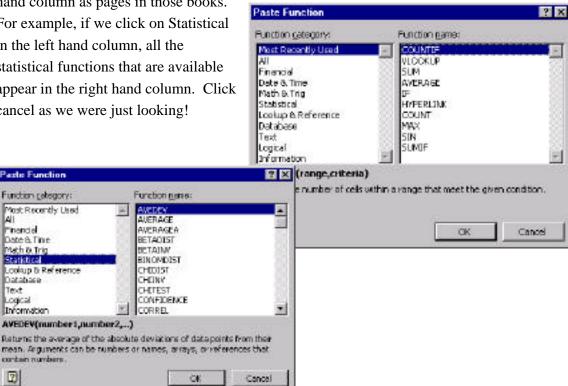
3

Logical

Most Recently Used

Lookup & Reference

AVEDEV(number1,number2,...)



Let's use some of these functions:

Average (Mean): We could type in the formula for creating an average of scores, but let's take advantage of the fact that Excel already knows how to calculate one.

- 1. Click into the cell that is in the same column as Midterm 1 scores, and is a couple of rows below the last student's data. In this example, I will use I28
- 2. Click **Insert>Function** or the function hot button
- 3. Click on the word **Statistical** in the left hand column

OK

- 4. Click on the word **Average** in the right hand column
- 5. Click **OK**. Another dialog box appears.
- 6. Excel now needs to know what numbers you wish to average.



- 7. Click and drag from the first student's midterm score to the last student's score.
- 8. This range of cells will appear in the dialog box in the following format: 'I5:I27'
- 9. Click OK.
- 10. As long as you have entered some data in this column, the average will be calculated.

 If there is no data, Excel will display an error message "!DIV 0" this means that you are attempting to divide by zero.



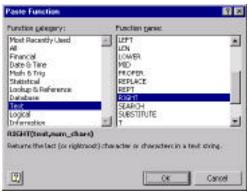
Using Letter Grades

If you choose to enter letter grades for assignments, then you will be limiting what Excel can do for you. Excel will not be able to average or add letter grades together unless you first convert them to numbers. You can certainly have Excel convert them for you (an A = 100, A- = 94, etc.) but then, you may as well enter them as numbers in the first place.

Create a 4 Digit ID

Here is a more 'professional' way of creating a 4 digit ID.

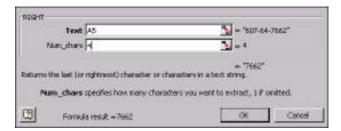
- 1. **Create** an **empty column** between Columns A and B by **selecting Column B**, clicking **Insert>Columns**.
- 2. **Click** into the cell in the 'new' Column B that is in the same row as the column titles (ID, Last Name, etc) **cell B3**
- 3. Type a title for this column "Student ID"
- 4. **Click** into the cell in Column B that is in the same row as the **first student's data** (Cell B4)
- 5. Insert>Function
- 6. Choose the 'Text' category and the function 'Right'
- 7. Click OK
- 8. If you need to move the dialog box, you can click and drag anywhere on the gray area (there is no grab bar)
- 9. The dialog box needs two pieces of information. First, which piece of 'text' are we going to be shortening **Click** on cell **A5** which holds the first student's ID number.



10. Second, **click** into the second row of information requested (**Num_Chars**) and indicate how many characters (digits) you want to retain. In this case we are going to type the number '4'.

This will give us the 4 characters from the right of the data in cell A5.

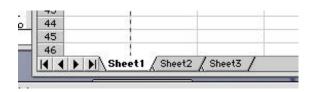
- 11. Click **OK**.
- 12. Use **Fill** to apply this function to the other students in the class.



Worksheets

A single workbook (Excel document) consists of one or more 'sheets' or pages. Excel allows you to have multiple sheets without creating a whole new Excel document. It easy to link information from one sheet to another within a single 'workbook.' You might find it useful to use more than sheet for each class. For example, you might enter all the homework assignments on one sheet and then want just the average score of those

assignments transferred to your 'final score' sheet. You might use extra sheets for graphs or charts of the students' performance. Or, if you have multiple sections of a single class, you may want to put each section on its own sheet within a single workbook.



Multiple sheets are especially useful if you need to calculate grades from a large number of assignments. You can preserve the full class roster on one page while having the other sheets reference the student names from it. This way you can make sure the names are correct without having to type them at all! Make a separate sheet for each type of grade - such as quizzes, homework, and so on - and ask Excel to repeat your students' names on each sheet. You can easily print out just the section you want by printing that sheet without having to set and reset the print area.

Inserting and Moving Sheets

- 1. Go to **Insert** pull down menu and choose **Worksheet**
- 2. A new worksheet will be inserted and will be called Sheet 'X'
- 3. In the tabs at the bottom of the page, you will see that it is to the left of whichever sheet you were on
- 4. To jump between sheets, click on the tabs.

To move that sheet.

5. **Click and drag** on the **tab** at the bottom of the page. Your cursor will have a little icon that looks like a page and a small black triangle will indicate the new location.

Using Multiple Sheets

Example 1: A grade based on multiple drafts.

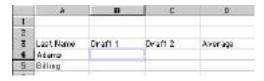
On our roster, we have a column for a grade on a paper. Let's assume that the grade is actually based on a number of drafts.

- 1. If there are not 3 tabs at the bottom left-hand corner of your sheet, it is because this file was saved as a simpler version of Excel when you downloaded it from the Registrar.
- 2. Click to go to either the new sheet you added or to Sheet 2.
- 3. Note that all your data seems to have vanished. Relax, it is still there either on Sheet 1 or on the one with the funny name that looks remarkably like the file name from the roster download!
- 4. Go to the **cell** on the new sheet where you will **begin the student name list**.
- 5. Type the equals sign (=)
- 6. **Jump** back to the original sheet that already has the student names **by** clicking on the appropriate tab.
- 7. Click on the cell containing the first student's name
- 8. Press the **return** (or enter) **key**
- 9. You should automatically be returned to your new page, where the name you chose appears in the cell. In the formula bar, you will see something like " ='Official roster'!C4" This is a reference to cell C4 on the sheet entitled "Official roster."
- 10. Now use the **fill** procedure to copy the formula into other cells to get the full name list. Do this by hovering the cursor over the bottom right-hand corner of the cell until you see the black cross, then clicking and dragging down.
- 11. If the class list changes, you can replace the roster on the "Official roster" sheet and all the other sheets will update automatically.

The caveat here is that you don't want to begin entering grades until the class roster is finalized, otherwise, you will have the wrong grades associated with the names.

Let's pretend that we are very generous and are going to give students the opportunity to write 2 drafts of this paper, and that their grade is an average of those scores.

- 12. **Type** a **heading** for each column of rewrites and one for the average
- 13. In the column for the average, enter a **formula** to add together the two scores and divide by two



- = (B4+C4)/2
- 14. **Fill** the formula down for all your students
- 15. Enter some data to make sure the formula is correct.

Now we need to reference these cells in the main grade sheet

- 16. Click on the tab at the bottom to return to the main roster
- 17. Select the cell for the first student's paper grade
- 18. Type the equals (=) sign
- 19. Click to jump back to your paper rewrite sheet
- 20. Click on the first student's computed score on the paper
- 21. Your formula will look something like this. Accept the formula by **hitting** the **enter** key.

=Sheet2!D4

22. **Fill** down this reference to the other sheet for all the other students.

Example 2: Converting to Percentages:

If you have assignments with different total possible points, you first want to standardize them all to a percent scale. To do this, you will **divide** each student's score by the **total possible points** for that assignment. Multiplying that number by 100 will then give you the score on a 100-point scale. That is, instead of reporting that a student earned 13 points out of a possible 20, you would report that the student earned 65%.

- 1. **Click** to go to **Sheet 3** if there is not already a Sheet 3, add a new sheet.
- 2. Go to the **cell** on the new sheet where you will **begin the student name list**.
- 3. Type the equals sign (=)
- 4. **Jump** back to the original sheet that already has the student names **by clicking on** the appropriate tab.
- 5. Click on the cell containing the first student's name
- 6. Press the **return** (or enter) **key**

- 7. You should automatically be returned to your new sheet, where the name you chose appears in the cell. In the formula bar, you will see something like "='Official roster'!C4" This is a reference to cell C4 on the sheet entitled "Official roster."
- 8. Now use the **fill** procedure to copy the formula into other cells to get the full name list. Do this by hovering the cursor over the bottom right-hand corner of the cell until you see the black cross, then clicking and dragging down.
- 9. Label Column B as the **Midterm1 Raw Score** and Column C as **Calculation** and Column D as **Percentage**
- 10. Enter some grades on a scale of 1 to 20 in Column B

Type the formula to calculate the ratio of raw score to total possible points in Column C:

- 11. Click into the cell adjacent to the first student's raw score
- 12. Type the **equals** (=) sign
- 13. Click on the cell containing that student's raw score (in this case, B2)
- 14. Type the **divide** (/)sign
- 15. Type the **total number of points**. In this case, 20.
- 16. Hit the **Enter** or Return key.
- 17. Fill down this formula for all the other students.

Now multiply that by 100

- 18. In the Column for the **Percentage** (Cell D2)
- 19. Type the **equals** (=) sign
- 20. Click on the cell containing that student's calculated score (in this case, C2)
- 21. Type the **Multiply** (*) sign
- 22. Type the number 100
- 23. Hit the **Enter** or Return key
- 24. **Fill** down this formula for all the other students.

Now we need to reference these cells in the main grade sheet

- 23. Click on the tab at the bottom to return to the main roster
- 24. **Select** the **cell** for the **first student's Midterm 1** grade
- 25. Type the equals (=) sign
- 26. Click to jump back to your calculation sheet
- 27. Click on the first student's percent score (D2)
- 28. Accept the formula by **hitting** the **enter** key.
- 29. **Fill** down this reference to the other sheet for all the other students.

Of course, we could have done the calculation in one step [=(B2/20)*100] but it doesn't' hurt to break up multiple calculations and can make it easier to understand.

Renaming Sheets

You have probably already forgotten which sheet is which as the names Sheet 1, 2, and 3 hold little descriptive value. You can rename the sheets to reflect the information they contain.

- 25. **Double click** on the **tab** that holds the sheet name for your main roster
- 26. The name should become **highlighted** and your cursor turn into an **I beam**
- 27. Type a suitable name, for instance 'Roster' or 'Main Grades'
- 28. Hit the **enter** key, or click anywhere else to accept your change

Practice what you know: Change the name of the other sheets you are working with to 'Paper Drafts' and 'Midterm 1'

Sorting Data

Be careful when you are sorting data. It is very possible to sort one column of data separately from the other columns. That means that it is possible to sort the names separately from the ID numbers, or the ID numbers separately from the grades.

- 1. Select ALL the cells of data.
- 2. Click **Data>sort**
- 3. In the 'Sort by' cell select the column that you wish to sort by. (For example the ID number, Last Name, or Final Score)
- 4. Excel allows you to sort by up to three columns. For example, you may wish to sort the data by section and then by last name.
- 5. Click OK.



Printing

Set Print Area

To print out a portion of a worksheet (e.g., certain columns) you can set a print area.

- 1. **Highlight the information** you want to print.
- 2. Click File> Print Area
- 3. Choose **Set Print Area**
- 4. Use print preview to verify what will print.

To remove the print area:

5. Click File> Print Area. Choose Clear Print Area

Printing Header Rows and Columns

If your class has more students than fit on a single printed page, you will want to print out

PYTRIO DE

Print titles

Forum to request at lop.

Columns to repeat at left.

Dreftquity

Down, then over

Page V Plargins V Header/Toster V Sheet

Black and white Comments: (Some)

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the column headers on each subsequent page. Also, if you have more assignments than fit on one printed page, you will want to print student identifying information on each page.

- 1. Click File>Page Setup
- 2. Choose the last tab Sheet
- 3. Click into the field labeled **Rows to repeat at the top**:
- 4. On your Excel page, **click** the **gray box** that identifies all the cells in **row 3** the row with your assignment titles.
- 5. On the dialogue box, **click** into the field labeled **Columns to repeat at left**:
- On your Excel page, click the gray box that identifies all the cells in column
 A the row with your ID numbers.

Practice what you know: Click back into the 'Columns to repeat' field and select the student ID and name to be repeated. Do this by clicking and dragging along the little gray boxes that identify the columns.

Error Messages You May See

#Value!

Generally this means that you are trying to do number things to text (like adding or subtracting). Make sure that all your cells referenced only have numbers in them

#Div0!

You are trying to divide by zero.

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Not really an error message - just saying that you don't have space to display the whole number in that cell - resize your column

#Ref!

You have deleted one of the cells that this formula depended on.

Print

Cannel OK

Print Preview