

Office 2001

Excel Gradesheets

A Quick Reference Guide



Introduction

It is very easy to maintain gradesheets using Microsoft Excel 2001 software. This is a step-by-step procedure to follow to set up a simple gradesheet. As you become more familiar with the program you may want to expand Excel's duties to create a more elaborate gradesheet.

Obtaining Your Class List

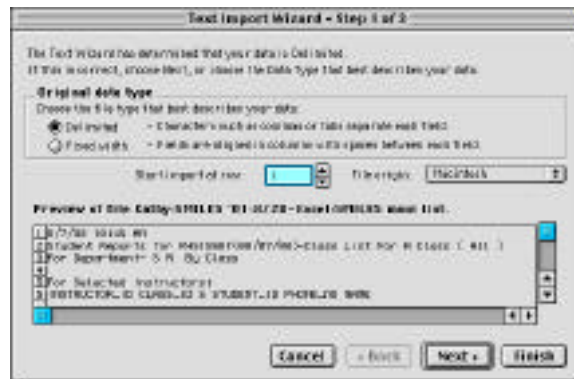
Because you don't want to have to type in all your students' names and social security numbers yourself, the first step in creating any gradesheet is to have your class list downloaded from MAUI, Foothill's easy-to-use VAX interface. If you don't already have an account, the easiest way to obtain this list is to ask me (Kathy), or your division secretary to download it for you. It only takes a few minutes and all you need to supply is a ZIP disk for the information to go onto.



Generic classlist

Once the class list has been downloaded, the icon for it will look like the picture to the left. This is a generic document icon, which is not affiliated with any particular software program, so if you double-click on it, the document will open up in Simple Text, not Excel. (This is bad.) To work around this, here are the steps you need to do:

1. Open Excel.
2. From the File menu, choose Open.
3. Maneuver through the dialog box until you find your class list document, select it and click on the Open button. For this exercise, open up the Grades 99 document.
4. The Text Import Wizard will open up. There are several options here, but for our purposes, all you need to do is to click on the Finish button.



- Your document will now open up in Excel and look very much like this: As you can see, there are six columns of information, not all of which we need to keep.

	A	B	C	D	E	F
1	8/7/01 10:49					
2	Student Reports for D:\G:\99800\07\013-Class List For A Class LAB >					
3	For Department- G A. By Class					
4						
5	For Selected Instructors:					
6	INSTRUCTOR_ID	CLASS_ID	S	STUDENT_ID	PHONE_NO	NAME
7	SAMPLE CLASS	EDIT 1	E	416050678	5082264066	GLOW, JOE
8	SAMPLE CLASS	EDIT 1	E	7421334	5082414567	ONE, SUE
9	SAMPLE CLASS	EDIT 1	E	928106478	5082462888	DEEP, BETTY
10	SAMPLE CLASS	EDIT 1	E	659014571	5085690888	HATTEL, BOB
11	SAMPLE CLASS	EDIT 2	E	643055021	5082296417	HATTEL, BOB
12	SAMPLE CLASS	EDIT 2	E	157760710	5082462379	CATHY, CHAT
13	SAMPLE CLASS	EDIT 2	E	569910679	5082462659	FELISA, HERR
14	SAMPLE CLASS	EDIT 2	E	17760710	4185662578	DUCK, DAVID
15	SAMPLE CLASS	EDIT 3	E	636080875	4182264066	TEARS, TONY
16	SAMPLE CLASS	EDIT 3	E	687421334	4182414567	GARY, GERRI
17	SAMPLE CLASS	EDIT 3	E	679014571	4182462533	DOE, JOHN
18	SAMPLE CLASS	EDIT 3	E	669028821	4182296417	DANIEL, JIM

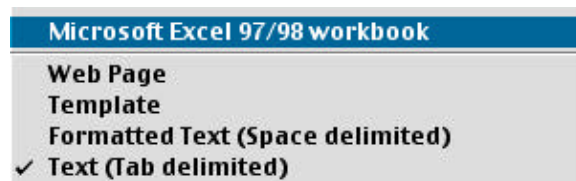
Excel Workbooks

Using Excel 2001, your work can be gathered into a workbook. The workbook can contain several pages, both spreadsheets and charts. In our case, we will have an Excel workbook that will consist of a separate page for each of your classes for the quarter. You don't need to have separate documents for each class.

When you first open up your class list that was downloaded from MAUI, it is not formatted as an Excel Workbook. Instead it is in Text format and only has one sheet. In order to create as many sheets as you have classes, simply go up to the Insert menu and drag down to Worksheet. Repeat doing this as many times as needed so that you have a separate sheet for each class you teach. If you look down at the bottom left edge you will see the tabs to other pages. We'll move data onto those sheets shortly.



Now is a good time to save your document. Choose Save from the File menu. You will notice that the file type is Text. That is the default for MAUI documents. Change the file type to Microsoft Excel Workbook (*versions 98/98 or 2000/2001 are both OK*) before saving. If you don't change the file type, you will lose all but one of the worksheets.



Formatting the Data

There are six columns of information on this spreadsheet. All the columns are equally sized, so some information is cut off, while other cells look nearly empty. It is much easier to work on a spreadsheet where you can see what you're working with.

1. Place your cursor on Column Heading A. Click and drag the mouse over to Column F. All the columns from A through F are highlighted (black). Let go of the mouse.
2. Move your cursor onto any line between column headings: for example, the line between Column Heading B and Column Heading C. Your cursor turns into a solid black, two-headed arrow. Double-click the mouse.
3. This action resizes the columns for a "Best Fit." You'll notice that Column A is now too wide. That's because the information in cell A2 takes up that much room to show, and Best Fit resizes to show everything in each cell.
4. Click on Column Heading A. The information in this column is just the instructor's name, which you already know, so you can delete it. The column should already be selected, since you clicked on the column heading. So type Command-Hyphen, or go to the Edit menu and choose Delete. That information will vanish and the rest of the columns will move over to the left.
5. You also don't need the single letter code that is now in Column B, so delete it in the same manner.

You now have columns A, B, C and D:

A = class ID

B = student social security number

C = student phone number

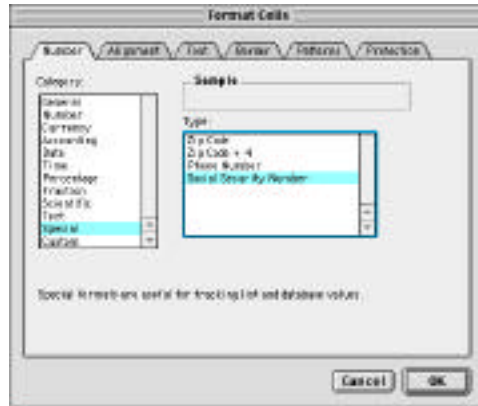
D = student name

CLASS_ID	STUDENT_ID	PHONE_NO	NAME
EDIT 1	616050873	5082264086	BLOW, JOE
EDIT 1	7421334	5082414567	QUE, SUZY
EDIT 1	529870678	5082662858	BOOP, BETTY
EDIT 1	633014371	5083650533	MATTEL, BAR
EDIT 2	643033821	5082299617	MATTEL, KEN
EDIT 2	157760710	5083662378	CATHY, CHAT
EDIT 2	569870678	5082662858	MOUSE, MINN
EDIT 2	17760710	4183662378	DUCK, DAISY
EDIT 3	696050873	4182264086	TEARS, TINY
EDIT 3	687421334	4182414567	BABY, GERBEF
EDIT 3	673014371	4183650533	DOE, JOHN
EDIT 3	663033821	4182299617	DARLING, JAM

For now, leave Column A–class ID. If you teach more than one class or section, students will be grouped by class and the only way you can tell what class the student is enrolled in is by this column.

We need to format the social security numbers. Several of them have leading zeros (0), which don't show. That's because ordinarily leading zeros are truncated.

1. Click on Column Heading B (the column with social security numbers) to select the entire column. Then go up to the FORMAT menu and drag down to Cells....



2. Make sure that you're in the first window (Number tab). From the Category list on the left, choose Special.
3. In the box on the right side, choose Social Security Number from the choices, and click OK.

Format the phone number list using the same procedure as you did for the social security numbers.

Sorting Data

1. Click anywhere inside the data. From the Data menu, choose Sort...



2. In the Sort by box, if NAME is not already selected, choose it from the pop-up list. Make sure that the My list has Header row is selected. Click OK.
3. Look at the data in Column A. You'll notice that, although the names are in alphabetical order, the class IDs are all mixed up. So now click anywhere in the table and choose Sort... again from the Data menu.
4. Select Sort by CLASS_ID and click OK. Now the names are in alpha order within each class section.
5. Save your work.

Although we did this in two steps, it can be accomplished in only one step. In the Sort box, first set to Sort by CLASS_ID, Then by NAME before clicking the OK button. I always get confused by doing more than one sort at a time.

Moving Data onto Separate Worksheets

This is a good time to separate the data onto individual sheets for each class. On this sample document we have three sections on our list: EDIT 1, EDIT 2 and EDIT 3. At the bottom of the screen you'll see three tabs: one for the first sheet, and then two more, for those worksheets we created earlier. These are individual pages of the workbook. We'll name the sheets: EDIT 1, EDIT 2 and EDIT 3, and move the corresponding data onto each sheet.


My data is on the third sheet. Your data may or may not also be on the third sheet, but my instructions will describe what to do if you're set up like me. If your data is on the first sheet, then you'll have to adapt somewhat.

1. Double-click on the tab most to the left. When you do, the existing word (Sheet 2) become highlighted. Simply type in the name for this worksheet of EDIT 1.
2. Double-click on the middle tab and name this sheet EDIT 2.
3. Double-click on the last tab and rename this sheet EDIT 3.
4. Go to the sheet with all the data (3rd sheet for me) and highlight the rows headers for students in EDIT 1. Then choose EDIT ⌘Cut. A little dotted-box will go around the text.
5. Click on the tab you named EDIT 1 (sheet 1 for me) to make that the active sheet. Place your cursor in cell A5 and choose Edit ⌘Paste.
6. Return to your data and repeat the process for students in EDIT 2.
7. Return to the original data sheet. Although this sheet contains the correct data (students in EDIT 3), there are now many empty rows between the headers and the data. Simply highlight the rows that are empty and type **COMMAND-HYPHEN** to get rid of the extra rows.
8. Save your work.

Setting Up the Gradesheet

Now that the classes have been separated onto their own individual worksheets, we don't need the CLASS_ID anymore. To delete this column, click on Column Heading A and type **COMMAND-HYPHEN**. Now you'll have more room to see your gradesheet itself. You can also delete the column with phone numbers if you won't need them.

Above the list of students I always add a row with the information for a Perfect Student who gets the total possible points. But right now the row directly above the first student has heading information, which I want to keep. So we need to insert a row.

1. Highlight the row below where you want the new row. So in this case, click on the Row 7 heading (or whichever row has your first student in it.) Then type **SHIFT - COMMAND - :** to insert a new row. The new row is highlighted. Before moving along, click on the Italic Icon on the Formatting Palette to make the entire row italics, which will help set it apart from real students. 
2. In the Name cell of the new row, type Perfect Student.

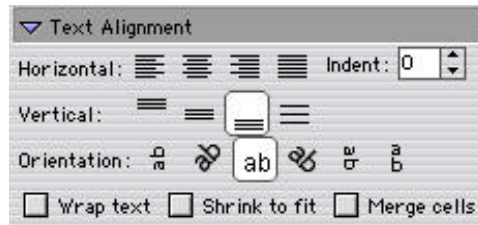
Adding Column Headings

In the row above the new row we have the existing headings: STUDENT_ID and NAME. We will also put the headings for things we grade: Quiz 1, Quiz 2, Midterm, Final, etc. here.

1. In this heading row, click in the cell to the right of NAME and type HW 1. Hit the TAB key to move right to the next cell in the row and type HW 2. Keep adding homework headings until you have HW 1—HW 5.
2. In the next cell type HW Total.
3. Skip a cell and add Quiz 1—Quiz 3 and a Quiz Total.
4. Skip a cell and add Midterm, Final and Total Points.

These look pretty bad because the titles take up way too much room. we only need the cells to be 2-3 characters wide except for the heading row. So what can we do?

5. Highlight the whole heading row by clicking on the row number on the left edge (Row 6 for me).



On the Formatting Palette, make sure the Text Alignment segment is open. As you can see from the image above, there are several choices to orient your text. Choose the first option (rotate text up).

- Now the text is vertical instead of horizontal but the cells are still too wide. Highlight Column Headings C-P (or over to include all columns with data) and double-click between any two headings to do a quick “Best Fit.”

The columns which were empty will have to be manually resized by dragging the right cell heading over to the left.

- Save this document. Close it. Stand up, stretch and take a break.

Calculating Grades

SMILES 01 grade sheet																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
1	GRADES															
2	EDIT 1															
3	Fall 2001															
4																
5																
6	STUDENT_ID	NAME	HW 1	HW 2	HW 3	HW 4	HW 5	HW Total		Quiz 1	Quiz 2	Quiz 3	Quiz Total	Midterm	Final	Total Pts.
7		Perfect Student	5	5	5	5	5			25	25	25		100	200	
8	616-05-0873	BLDOW, JDE	4	5	2	3	2			18	15	18		68	130	
9	529-87-0878	BOOP, BETTY	5	5	3	4	1			18	18	20		72	145	
10	633-01-4371	MATTEL, BARBIE	4	5	2	3	2			18	15	18		68	130	
11	007-42-1334	QUE, SUZY	5	5	3	4	1			18	18	20		72	145	

Open up the SMILES 01 grade sheet document, located in the SMILES 01 CE8/28 Excel folder. It should look very similar to the document you created except that data has been added. We will be working from this document for the rest of the exercise. You’ll notice that although homework points and quiz and test scores have been entered, no totals have been calculated. We’ll do that now.

- To total up the homework points, click in Cell H7 (Perfect Student HW Total).
- Click on the AutoSum icon in the top toolbar (Σ). A formula will appear in the Formula Bar (which is located under the toolbars): =SUM(C7:G7) and “marching ants” will appear around the homework totals for the Perfect Student—indicating what amounts will be added.

3. This is, in fact, what we want to add, so hit the ENTER key. (Not Return!)

We now want to add the homework totals for each of the students, and there is a shortcut for doing it:

4. Place your cursor over the bottom right corner of cell H7. It turns into a hollow box (the autofill box). While holding down the mouse, drag down the column to the end of rows with data. Then release the mouse. As you drag the mouse, you are copying the formula (=Sum...) into each cell, so when you are done dragging, the homework totals are all calculated for all the rows.
5. In the same manner, calculate the Quiz totals.
6. You may have noticed that in addition to copying the formulas, you also copied the cell formatting, so now all your totals are italicized. Highlight the HW Totals for all the real students (not Perfect Student), and click on the I on the Formatting Palette to set these figures back to normal. Do the same for the Quiz Totals.



Now we need to calculate the total number of points for the entire quarter. This amount is going to include HW Total, Quiz Total, Midterm and Final. We can't just do a simple sum because we need to add together cells that aren't adjacent to each other. Instead we will write out our own formula:


7. Click in Cell Q7 and type an equal (=) sign. (All formulas begin with an equal sign.)
8. Then click on the HW Total cell, type a plus sign (+), click on Quiz Total cell, type +, click on Midterm cell, type +, click on Final cell.
9. Your formula should read: = H7 + M7 + O7 + P7. If it does, hit the ENTER key.
10. You should get the total of 400 in Cell Q7. If you accidentally clicked anywhere else while entering the formula, you will have added in figures you don't want to include. You will need to edit the formula to include only what you want. Do this editing in the formula bar.
11. Now you can click on Cell Q7 and drag the corner down to get the totals for all the students. Be sure to save your work!

At this point we could be finished with the grade sheet. You will have to go in and assign grades based on the point totals calculated by Excel, print it out and you're done.

Letter Grades

If you don't want to have to put in the letter grades yourself, there is another step.

First, let's make a simple little text message at the bottom of the sheet to state how many points each grade is worth.

1. Go up to the VIEW menu, drag down to Toolbars, drag to the right and release on Drawing. The Drawing Toolbar will show up on the left side of your monitor.
2. In the middle of the toolbar there is the little Textbox icon. Click once on this icon and then move your cursor up onto the spreadsheet to a spot underneath the grades. 
3. Click the mouse button and drag down and over to the right to make a box. When you release the mouse button, your cursor is blinking in the box, waiting for you to type. Type out the following:

POINTS	GRADE
400-351	= A
350-301	= B
300-251	= C
250-201	= D
200-Below	= F

4. Once you've entered the text, if you find your box is too big you can resize it by dragging one of the selection boxes on the edges or corners. You can move the box by dragging it from the edge—not on a selection box.

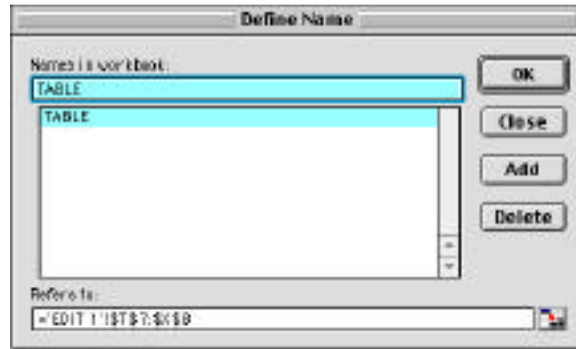
Creating a Lookup Table

The next step involves making a "Lookup Table." We will set this up so Excel will "read" the number of points each student earned, and "look up" the corresponding grade in a table, and then assign the grade to the student.

- 1) Scroll over to the right of your gradesheet, to about the T column.
- 2) In cells T7 through X8, type:

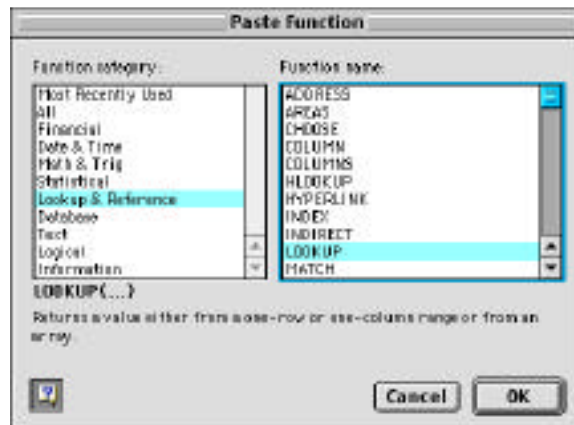
	0	201	251	301	351
F	D	C	B	A	

3. We need to name this table so Excel knows where to look up. Highlight cells T7 through X8 (the table), go to the INSERT menu, and pull down to Name—Define.
4. Name these cells TABLE and click on the Add button.

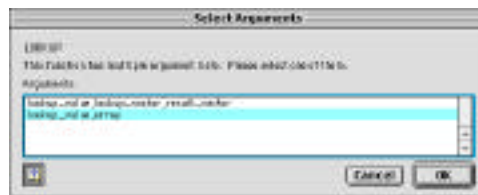


To have Excel automatically assign letter grades:

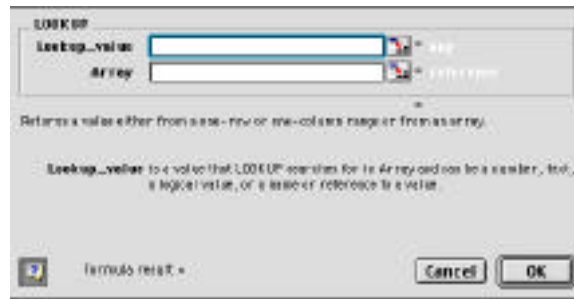
1. Starting with the Perfect Student, click in Cell R7.
2. We need to insert a formula here, so from the INSERT menu, choose Function....
3. From the Function category, choose Lookup & Reference. On the right side of the dialog box, choose LOOKUP. Click OK.



4. A new dialog box appears: Select Arguments. Choose the second option: Lookup-value, array. Click OK.



5. Yet another dialog box appears:



6. In the top box it wants to know what value to look up. This is the Total Points for Perfect Student, so on the worksheet, click on Cell Q7 (value = 400).
7. Click in the bottom box. This is where you indicate where to look up the answers. Go over to Cell T7 and drag down to Cell X8. Since you've defined this as your table, Excel puts table in this box. (Alternatively, you can type **t a b l e** in this box, which might save you some time.) Click OK.
8. The grade **A** will show up in Cell R7 (the cell we set this function up in). The formula in the formula bar reads: **=LOOKUP(Q7,table)**.
9. Click that little box in the right corner of Cell R7 and drag it down to fill the formula for the rest of the students.

Ta Da! The Grades Are Assigned!

Now is a good time to SAVE your work.

PRINT the GRADESHEET

The object of creating an Excel worksheet like this is to be able to turn in your grades. So now you need to PRINT out the sheet.

If you do a quick Print-Preview from the FILE menu, you'll see that your grades are going to print out on two "portrait" sheets of paper. It would look a lot better if you print the grades out on one "landscape" sheet of paper. These are the steps for printing out the way you want:

If you're still in Print Preview, click on the Setup button at the top of the window. If you're not in Print Preview, choose Page Setup from the FILE menu.

Page Setup

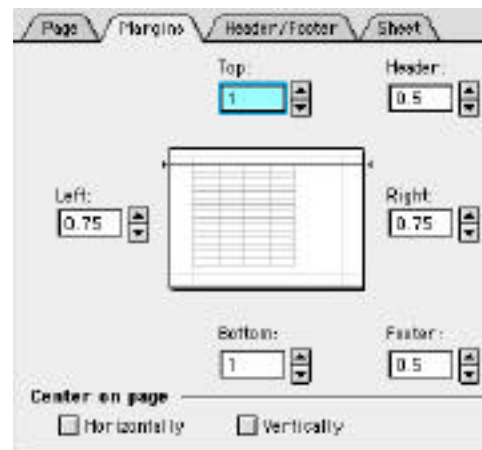
PAGE:

Choose Landscape orientation. You can also set scaling here: click on the Fit to 1 page wide by 1 page tall. When you choose this option, the document is scaled to fit on only one sheet. Be careful if you have lots of data; you may end up with data too small to read.



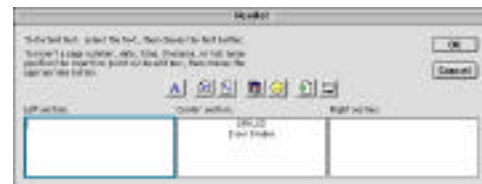
MARGINS:

Set your margins in this window. If you want you can center the table horizontally, vertically or both.



HEADER/FOOTER:

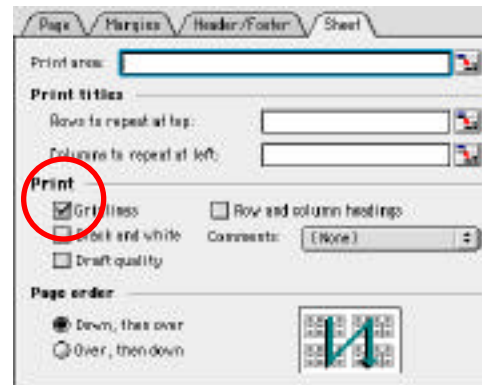
If you want, place a header or footer on your page. Choose preformatted options from the pop-down list in the box above, or create your own by clicking on the Custom buttons. The Custom Header box looks like this. The Custom Footer box looks just the same. Click where you want your text to be and type it in.



Incidentally, you can adjust the character formatting (font, style, etc.) by clicking the Custom button. Then click on the **A** icon. The Font window will open to allow you to customize your header (or footer).

SHEET:

Your spreadsheet will be a lot easier to read if the gridlines show. In previous versions of Excel, they printed automatically, but on my sample document they didn't print at first. To print the gridlines, go to the Sheet window (shown above) and click so there is an X in the Gridlines box.



Print Preview

Be sure to click the Print Preview button before actually printing. Sometimes the preview looks different than what you expected. If so, just return to Page Setup and keep adjusting until you are satisfied with what you see.

When you are ready to print, click on the Print button or choose Print from the FILE menu.

Closing Remarks

- ❖ Add your data as it becomes available. It is simple to update your gradesheet if you do it fairly regularly.
- ❖ At the end of the quarter, sum up the totals and assign grades. This can then be turned in to Admissions & Records.
- ❖ Your gradesheet can be as simple or as elaborate as you wish. I have seen gradesheets as simple as only having the data entered and totals summed up. Then the instructor assigns grades by hand from the point totals.

I have seen other gradesheets that were so elaborate that it took me 30 minutes to figure out what was going on. There is an instructor that has Excel total up all the points, drops the lowest quiz score, calculates the final point total and then looks up and assigns the grade automatically from the table. THEN Excel figures out a frequency chart so the instructor can tell at a glance how many students fell into the A range, the B range, etc.