

How do I set up a Gradebook with categories and weighting?

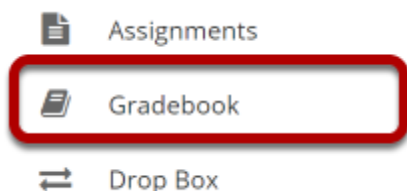
In this scenario, we will pretend that you have homework, projects, a midterm, and a final to grade. You would like the weighting to be as follows:

- 3 Homework assignments - 24% of the total grade
- 2 Projects - 26%
- 1 Midterm - 20%
- 1 Final - 30%

The percentages of all the weighting must add up to 100%.

It is easiest to set up your Gradebook first, and then create or add items to the Gradebook. But don't worry, if you have already set up your Gradebook items (homework assignments, projects, etc), you can come back and do this setup later and then assign the Gradebook items to the appropriate categories. It is also easy to add categories and even change the weighting of grades at any time.

Go to Gradebook.



Click the Settings tab.

Filter students Showing 4 students

Students	Course Grade
Student 1, Demo (demostudent01)	-
Student 2, Demo (demostudent02)	-
Student 3, Demo (demostudent03)	-
Student 4, Demo (demostudent04)	-

There are no Gradebook items

ADD GRADEBOOK ITEM

Click to expand the Categories and Weighting section.

Settings

[Expand All](#) [Collapse All](#)

▶ Grade Entry

▶ Grade Release Rules

▶ Statistics

▶ Categories & Weighting

▶ Grading Schema

SAVE CHANGES

Cancel

Select the Categories & weighting radio button.

▼ **Categories & Weighting**

No categories
 Categories only
 Categories & weighting

A category will only be visible if there is at least one Gradebook item assigned to it.
If 'Categories & weighting' is enabled, uncategorized items will not be counted toward the course grade.

Drop highest Drop lowest Keep highest Equal weight

To apply drop highest, drop lowest, or keep highest, all items in the category must have the same score value.

	Category	%	Extra Credit	Gradebook Items	Remove
☰	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	0 items(s)	<input type="button" value="Remove"/>
Total:	0%	Weighting for the categories must equal 100%			

► **Grading Schema**

Additional options will display once you select categories and weighting.

Enter categories and percentage weighting.

▼ Categories & Weighting

No categories
 Categories only
 Categories & weighting

A category will only be visible if there is at least one Gradebook item assigned to it.
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Drop highest Drop lowest Keep highest Equal weight

To apply drop highest, drop lowest, or keep highest, all items in the category must have the same score value.

2	Category	%	Extra Credit	Gradebook Items	Remove
	Homework	24	<input type="checkbox"/>	0 items(s)	<button>Remove</button>
	Projects	26	<input type="checkbox"/>	0 items(s)	<button>Remove</button>
	Midterm	20	<input type="checkbox"/>	0 items(s)	<button>Remove</button>
	Exam	30	<input type="checkbox"/>	0 items(s)	<button>Remove</button>

Total: 100%

1 Add a category


▶ Grading Schema

3 SAVE CHANGES Cancel


1. Click the **Add a category** button to add more categories.
2. For this example, enter each category as follows: Homework 24%, Projects 26% , Midterm 20%, and Final 30%.
3. Click **Save Changes** when you finished adding categories.

Click the Grades tab.



Filter students  Showing 4 students

Students	Course Grade
Student 1, Demo (demostudent01)	-
Student 2, Demo (demostudent02)	-
Student 3, Demo (demostudent03)	-
Student 4, Demo (demostudent04)	-



There are no Gradebook items

[ADD GRADEBOOK ITEM](#)

Click Add Gradebook Item to create items and associate them with the appropriate categories.

The screenshot shows the 'Add Gradebook Item' dialog box with the following details:

- Title:** Homework 1
- Point value:** 100
- Extra credit:**
- Grading Rubric:** Do not use a rubric to grade this assignment. Use the following rubric to grade this assignment. A dropdown menu is open showing: Uncategorized, Homework (24%), Projects (26%), Midterm (20%), Exam (30%).
- Due date:** [Empty field]
- Category:** Uncategorized
- Release item to students?:**
- Include item in course grade calculations?:**
- Buttons:** Create, Cancel

1. Add seven Gradebook items: Homework 1, Homework 2, Homework 3, Project 1, Project 2, Midterm, Final. The title for the first item is shown in the image above.
2. For the sake of this example we will assign 100 points for every item.
3. Make sure to assign each Gradebook item to the appropriate category. All three Homework items should be assigned to the Homework category, both Project items should be assigned to the Projects category, the Midterm to the Midterm category, and the Final to the Final category. It may not feel intuitive to have categories with only one Gradebook item, but having all the grades accounted for at the category level is what allows us to control the weighting.
4. Be sure to check the boxes next to **Release item to students?** and **Include item in course grade calculations?** for each item.
5. Click **Create** to save the item.

Note: You may also assign items from other tools, such as Assignments or Tests & Quizzes, to specific categories when you create them.

To test our scenario:

Gradebook Item	Grade	Weight	Due Date	Comments
Exam	95%	30%		
Exam	95 /100		-	
Homework	87%	24%		
Homework 1	89 /100		-	
Homework 2	94 /100		-	
Homework 3	78 /100		-	
Midterm	90%	20%		
Midterm	90 /100		-	
Projects	85.5%	26%		
Project 1	83 /100		-	
Project 2	88 /100		-	

Let's say demostudent01 has earned the following points:

- Homework 1 - 89 out of 100
- Homework 2 - 94 out of 100
- Homework 3 - 78 out of 100
- Project 1 - 83 out of 100
- Project 2 - 88 out of 100
- Midterm - 90 out of a 100
- Final - 95 out of a 100

The Gradebook will automatically calculate the weighting for you. In this case the final score is 89.61%

How does it come up with 89.61%?

- The average of the homework is $(89+94+78)/300$ points possible. Total = 87%
- The average of projects is $(83+88)/200$ points possible. Total = 85.5%
- Midterm and Final only have one grade in those categories, therefore the category average is equal to the score/points possible (90/100 and 95/100 respectively).

Now apply the weighting:

- $(.87 \text{ homework} * .24 \text{ weighting}) = .2088$
- $(.855 \text{ projects} * .26 \text{ weighting}) = .2223$
- $(.9 \text{ midterm} * .20 \text{ weighting}) = .18$

- $(.95 \text{ final} * .30 \text{ weighting}) = .2850$
- Add them up = $.8961 = 89.61\%$

If you try this example and don't get the same results, you might want to go back and double check the following:

- The category weighting is set up with the scenario percentages.
- Each Gradebook item is assigned to the correct category.
- Each Gradebook item is released to students and included in Gradebook calculations (two checkboxes).
- The student grades were entered correctly.