GPA Calculation Setup

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Tool Search: GPA Calculation

Campus automatically calculates students' cumulative GPAs in student transcripts based on the course-defined GPA Weight of courses in which the student received credit. This GPA Calculations tool can be used to create custom GPA calculations that consider only students' performance in the selected courses. For example, these calculations can be used to calculate a student's math and science GPA when applying to an engineering school. Custom GPA Calculations are not required to set up Grading and Standards information. These custom GPAs are used in special situations or as needed.

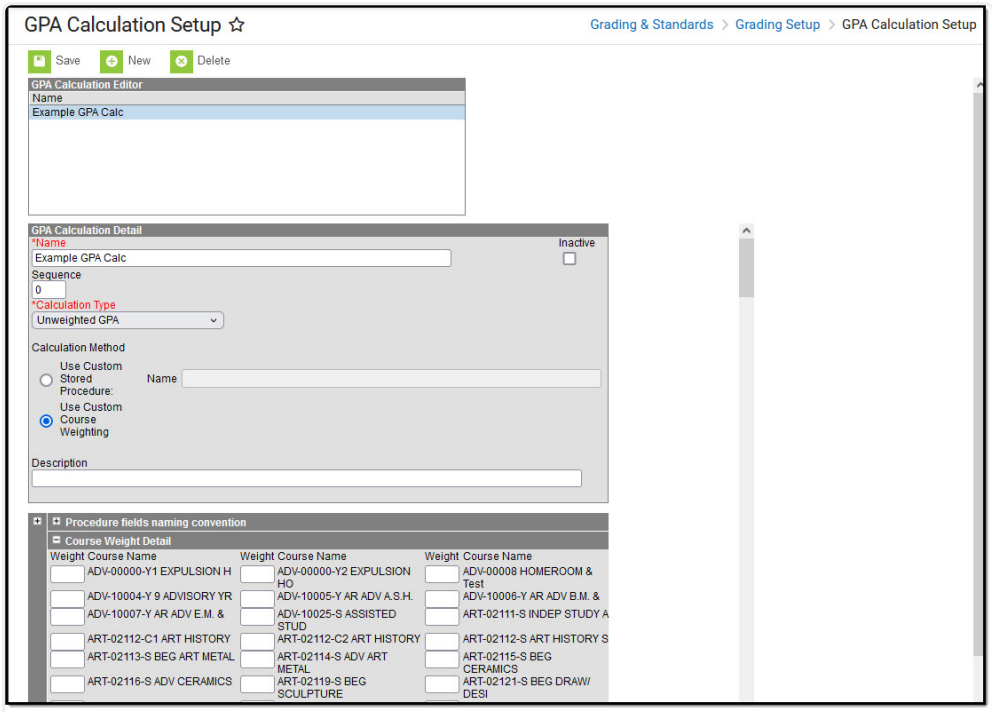
Two options exist:

1. **Custom Stored Procedure**. This requires database access and understanding of the Campus database.
2. **Custom Course Weighting**. This option modifies the GPA Weight entered at the Course level to follow the custom Weight entered here. It does not require database access.

A district can add as many custom calculations as necessary. A school must decide whether to use the standard calculation available in Campus or an available custom GPA calculation. That chosen custom calculation must be associated with the appropriate school calendar before the GPA calculation is applied to student GPAs. **If it is determined that a more advanced GPA calculation is needed for your district, districts with database access can create a stored procedure. Otherwise, the Campus Technical Services team can create stored procedures.**

For detailed information about GPAs, GPA Calculations, GPA Weights, etc. see the GPA Calculations in Campus article.

GPA calculations can be marked as inactive when they are no longer in use. GPA Calculations can also be rolled forward when calendars are rolled forward. Inactive calculations can be added to calendars, but do not roll forward to new calendars.



GPA Calculation Editor

See the Grading Setup Tool Rights article to learn about the rights needed to use this tool.

Custom GPA locations in Campus

Custom GPA calculations are displayed in the following areas:

- Student Grades
- Student Credit Summary
- Transcript Report Preferences
- Printing student transcripts using Transcript Batch or the print option from Student Transcripts
- Cumulative Label Report
- Class Rank Report
- Graduation Programs and Academic Programs

GPA Calculation field descriptions

The following fields are available when creating custom GPAs.

Field	Description

Field	Description
Name	Indicates the name of the GPA calculation. This name appears in the list of available calculations, so it should be clear and descriptive. The name can be up to 50 characters in length.
Inactive	When marked, indicates the GPA calculation is outdated. Inactive calculations cannot be assigned to calendars or rolled forward into future calendars.
Sequence	Entered value is used to sort GPAs. Several custom calculations could be assigned for a calendar; a calculation with a sequence of 1 displays before a calculation with a sequence of 5.
Calculation Type	Selection indicates the type of calculation that will be done. Options are: • Weighted GPA • Unweighted GPA • Weighted GPA with Bonus Points • Unweighted GPA with Bonus Points For information on these options, see the GPA Calculations in Campus article.
Calculation Method	Selection determines whether the GPA is calculated using a stored procedure or if courses are manually weighted. • **Use Custom Stored Procedure** - This option requires the stored procedures to be available in the database before populating this screen, which our Technical Services team created. When chosen, the read-only **Procedure fields naming convention editor** opens, and the Custom Course Weighting editor is blank. • **Use Custom Course Weighting** - This option allows specific courses to be weighted differently. When chosen, the **Course Weight Detail** editor opens. This is an override to the GPA Weight entered on the Course editor. The Course Weight Detail editor opens when chosen, and the Procedure Fields Naming Convention editor is blank.
Name	Lists the name of the Custom Stored Procedure when using the Calculation Method of Use Custom Stored Procedure. The stored procedure must be created first
Description	Use this field to provide more information on the GPA Calculation. This is not displayed on reports, but more information on the procedure used or when it was created could be helpful.

Custom Stored Procedure

The following information relates to the Use Custom Stored Procedure option.

Procedure fields naming convention

Note that certain fields MUST be included in a stored procedure for GPA, as well as certain fields that may be included in a stored procedure for GPA. These are listed in the **Procedure Fields Naming Convention** editor.

The following fields are required when creating a GPA-stored procedure:

- personID
- gpaWeight (total GPA Weight)
- out_of (total number of students in corresponding grade level with whom the student is ranked)

The following fields are optional when creating a GPA-stored procedure:

- cumGPA
- rank
- cumGPAUnweighted
- rankUnweighted
- cumGPABonus
- rankBonus
- cumGPAUnweightedBonus
- rankUweightedBonus
- student
- studentNumber
- grade

Stored Procedure details

All custom GPA stored procedures must have the same parameters as the *get_gpa_stats_all* stored procedure..

Create a stored procedure that includes these parameters:

- @personID INT = NULL,
- @calendarID INT = NULL,
- @grade VARCHAR(4) = NULL,
- @sort INT = NULL,
- @endYear INT = NULL,
- @excludeOverride bit=0

The stored procedure may contain additional parameters, but the custom GPA process does not use them. If other parameters are included in the stored procedure, include logic to provide default values for the additional parameters.

When reports using the custom GPA process run, they always provide a value for @calendarID. @personID or @grade may be null, depending on whether the report runs for all students in a grade level, for students in multiple grade levels, or for a single student. The stored procedure should include logic to handle all of these options.

The stored procedure must return values from at least one of the sets of values below (exact matches, case sensitive), which should match the Calculation Type selected when the GPA

Calculation Detail is saved:

Sets	Values
Set 1	cumGPA rank
Set 2	cumGPAUnweighted rankUnweighted
Set 3	cumGPABonus rankBonus
Set 4	cumGPAUnweightedBonus rankUnweightedBonus

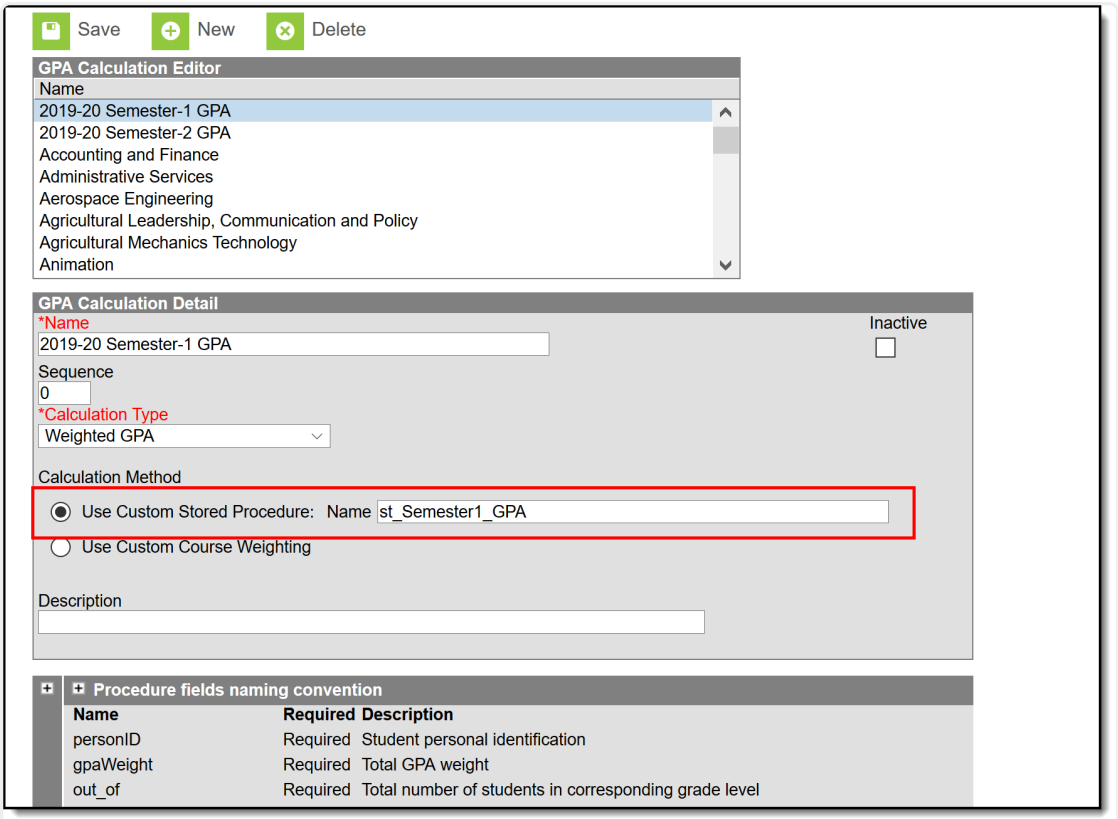
The stored procedure may also return grades and bonus points.

The stored procedure may return more values than those listed above, but these values are not currently available in the Campus core reports that use custom GPAs.

If modifying the fields of an existing GPA calculation, be aware that changing the calculation method from a stored procedure to a custom course weighting option removes the stored procedure from the editor. The procedure will not be removed from the database. It would be good practice to note the stored procedure name in the Description field, just in case.

Create a Custom GPA using a Stored Procedure

1. Click **New** in the action bar.
2. Enter a **Name** for the custom GPA. This name will appear on transcripts and reports.
3. Mark the **Inactive** checkbox as appropriate, e.g., when this stored procedure is no longer used or is not ready to be used.
4. Enter the appropriate **Sequence** value.
5. Select the desired **Calculation Type**.
6. Select the **Use Custom Stored Procedure** radio button for the **Calculation Method**.
7. Enter the **Name** of the stored Procedure.
8. Enter a **Description** of the calculation.
9. Click **Save** when finished. The GPA Calculation is saved and is listed in the GPA Calculation Editor. Next, assign the calculation to a calendar.



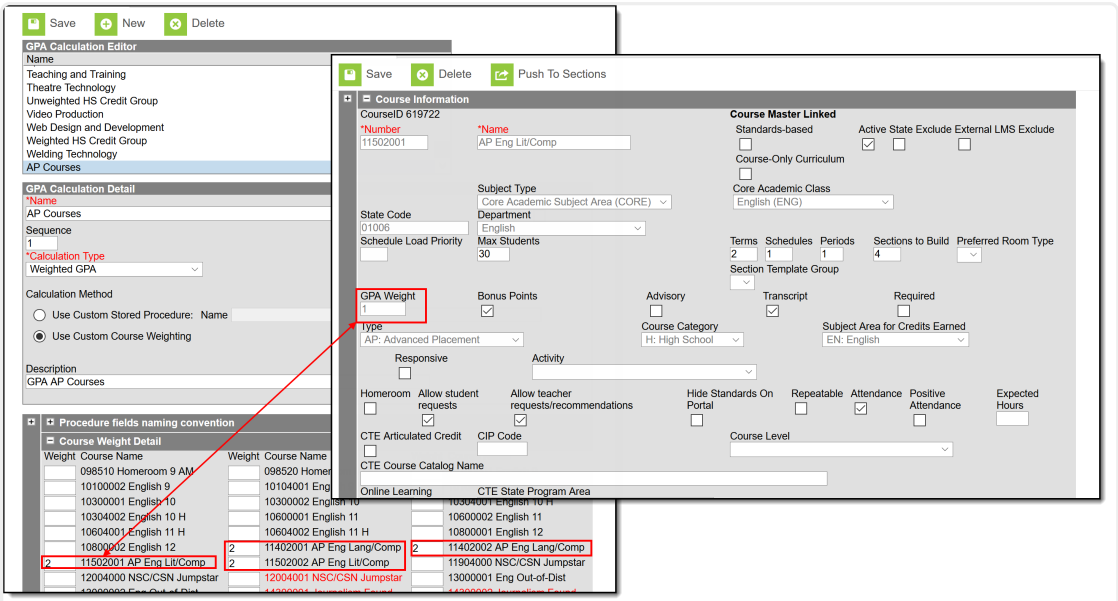
Custom Stored Procedure for Custom GPA

Custom course weighting

Custom Course Weighting overrides the GPA Weight entered on the Course editor. For example, Advanced Placement courses may be assigned a weight of 2 rather than 1 in the custom GPA calculation. Or, perhaps all courses are weighted the same on the Course level, but this custom calculation gives each course a different weight.

This option is helpful when a district is uncomfortable creating stored procedures, does not want to work directly in the Campus database, or is limited in contacting Campus Technical Services for specific needs.

On the GPA Calculation Editor, notice that the **Weight** value for the AP Eng Lang/Comp courses is a value of 2. In the image below, notice that the **GPA Weight** on the Course Editor or Transcript Record has an entered value of 1. When this GPA calculation is used, and the student receives an A (equals a GPA Value of 4.0), the GPA counts that A GPA Value as an 8 (4.0 GPA value x 2 GPA weight).



Weight on GPA Calculation, GPA Weight on Course

Create a Custom GPA using custom course weighting

1. Click **New** in the action bar.
2. Enter a **Name** for the custom GPA. This name displays on transcripts and reports.
3. Mark the **Inactive** checkbox as appropriate, e.g., when this calculation is no longer used or is not ready to be used.
4. Enter the appropriate **Sequence** value.
5. Select the desired **Calculation Type**.
6. Select the **Use Custom Course Weighting** radio button for the **Calculation Method.**
7. Enter a **Description** of the calculation.
8. For each course to be included in the Custom GPA, enter the **course's Weight**. NULL values count the same as a zero (0) GPA weight.
9. Click **Save** when finished. The GPA Calculation has been saved and is listed in the GPA Calculation Editor. Next, assign the calculation to a calendar.