



Aeries Student Information System
GPA'S, Credits, Class Rank and GPA Calculation
May 10, 2004

GPA'S, CREDITS AND CLASS RANK

There are several types of GPA's, credits, and class rankings that are calculated and stored in the Aeries database. All fields are stored in the STU table. The credits and class rankings are described in the sections below, along with the Query field codes. The GPA's will be identified here:

- The Total GPA includes all courses that a student has taken.
- The Academic GPA excludes all non-academic courses. A non-academic course is any course that has an "N" in the N/A field of the courses (CRS) table.
- The Grades 10-12 Academic GPA (AKA the College GPA) excludes all non-academic courses and all courses taken when the student was in grade 9.
- A weighted GPA will include the extra grade points (defined by the district/school) for honors courses that a student has taken. An honors course is any course that has an "H" in the N/A field of the courses (CRS) table.
- A non-weighted GPA will not include extra grade points for honors courses that a student has taken.

The following GPA's, credits, and class ranks are stored in the student record, and may be queried using the STU table and the Query Field codes that are provided along with the description of the GPA.

Cumulative GPA's, calculated from Course History, weighted:

Field Code	Field Name	Description
TP	TGPA	Total GPA
GP	AGPA	Academic GPA
CP	CGPA	Grades 10 - 12 Academic GPA
CA	Credit Att	Credit Attempted
CC	Credit Cmp	Credit Completed
CR	Class Rank	Class rank based on the school's selection of the weighted Total GPA (TP), the weighted Academic GPA (GP), the non- weighted Total GPA (TPN), or the non- weighted Academic GPA (GPN)
UR	UC Rank	Class rank based on the Grades 10-12 Academic GPA (CP)
CS	Class Size	Class size including active or graduated (a status tag of "G") students

Cumulative GPA's, calculated from Course History, non-weighted:

Field Code	Field Name	Description
TPN	TGPAN	Total GPA Non-weighted
GPN	AGPAN	Academic GPA Non-weighted
CPN	CGPAN	Grades 1012 Academic GPA Non-weighted

Current GPA's, calculated from the current marking period in the Grade Reporting (GRD) table, weighted:

Field Code	Field Name	Description
GT	GTGPA	Grades Total GPA
GG	GAGPA	Grades Academic GPA
GA	Credit Att	Credit Attempted
GD	Credit Cmp	Credit Completed
GK	GRank	Class rank based on the school's selection of the Grades Total GPA (GG) or the Grades Academic GPA (GG)
GS	GSize	Class size including active students

Current GPA's, calculated from the current marking period in the Grade Reporting (GRD) table, non-weighted:

Field Code	Field Name	Description
GTN	GTGPAN	Grades Total GPA Non weighted
GGN	GAGPAN	Grades Academic GPA Non weighted

Citizenship GPA's:

Field Code	Field Name	Description
CC	CCGPA	Cumulative Citizenship GPA calculated from Course History
GC	GCGPA	Grades Citizenship GPA calculated from the current citizenship mark in the Grade Reporting (GRD) table

University of California and California State College entrance qualifications:

Field Code	Field Name	Description
PTS	PTS	Number of grade points, used to calculate University of California and California State College GPA's
PUC	PUC	Preliminary Academic GPA for University of California entrance
PCS	PCS	Preliminary Academic GPA for California State College entrance
QUC	QUC	Qualifies for University of California entrance (Y/N)
QCS	QCS	Qualifies for California State College entrance (Y/N)

GPA CALCULATION

In order to create a numerical average (GPA), each mark is converted to a point value using the Grade Code (GRC) table. The Grade Code table is accessed from the **Grade Reporting Options** form by selecting the **Update Valid Marks**. All marks that are used for report cards and transcripts must be defined using this form.

On the left side of the form there are **Yes/No** radio buttons under the **Count in GPA Computation?** which indicate whether the mark is to be used when calculating a student's GPA.

There are also two fields, **Non-honors courses** and **Honors courses**, in the **Point value in GPA computation** area of the form. These two fields **must** contain a value for each mark that is defined. If a mark is not used in the GPA calculation, then that mark is defined by using zero in these two fields.

The values on this form are utilized to compute the GPA. The **Grade Points** are multiplied by the **Credit Value** and then divided by the **Total Credits** attempted.

Add-On Weighted GPAs

In addition to all of the above described traditional GPAs, some schools have developed an alternative way of calculating weighted GPAs. This is sometimes referred to as the **"Huntington Weighted GPA"** making reference to the location of its conception. Aeries calls this series of GPAs **"Add-On Weighted GPAs"** making reference to the process in calculating this type of weighted GPA. The Add-On Weighted GPA can be configured from the **Aeries Variable for Current School** form using the "W" setting.

AERIES Variables for Current School

AERIES Variables set for Eagle High School

Data source is LOC table

Be very careful when changing these variables!

EXIT

A: Period Attendance

B: Positive Attendance

C:

D: Phone Master

E: Secondary

F: No forms security

G: 1 mark Trifold

H: Normal

I: Normal

J:

K: 6 tracks

L: Default

M: Multiple mark grades

N: Scheduling for next year

O: Assign sections by period * 100

P: Use LOC photo path

Q: Semester school

R: Rank based total GPA

S: Show current sem total abs

T: Keeping tardies

U: Summer school

V: Neither (or ABL)

W: Do both normal and Add-On weight

X: Weight honors

Y: Do not weight honors

Z: Do both normal and Add-On weighting

Z: Weight Honors using Add-On logic

Aeries supports storing the Add-On Weighted GPAs in the regular weighted fields for each GPA or in a completely different set of fields so that both the traditional Weighted GPA and the Add-On Weighted GPA will be able to be queried and printed.

The table below describes the field codes for all of the GPAs in Aeries.

	Grade Reporting (GRD)		Cumulative (HIS)		
	Total	Academic	Total	Academic	10-12
Weighted	GT	GG	TP	GP	CP
Unweighted	GTN	GGN	TPN	GPN	CPN
Add-On Weighted	GTA	GGA	TPA	GPA	CPA

Additionally there are the 2 Preliminary Academic GPAs for the University of California and California State College entrance (PUC and PCS).

When options 8 or 9 are chosen on the Aeries Variables for Current School form, a configuration form will automatically appear.

Add-On GPA Options

An Add-On Weighted GPA can function in two ways:

- ☒ Add a set value to the Unweighted GPA for every *passing honors course encountered.
- ☐ Add a calculated value to the Unweighted GPA. The value is equal to the number of honors courses encountered (with a max individual term limit) multiplied by a set value, then divided by the number of terms. Summer School would count for the Fall term following.

* Passing marks are marks whose honors point value in GPA computation is greater than the non-honors point value according to the Update Valid Marks form.

Value to add per honors course: Max Honors Courses per Term:

Count Summer in the Fall term of the:

Title of Add-On Weighted GPA (leave blank for default):

Print What on Transcripts? ☒ Show Both Ranks

☐ Normal Weighted ☐ Add-On Weighted ☒ Both Weights

There are 2 different ways of calculating Add-On Weighted GPA and both options revolve around how to calculate the amount to add-on the Unweighted GPA. That Add-On Value can be calculated simply by multiplying a fixed value for every honors course passed. The other method is more complex. That way adds up all of the honors courses passed and applies a maximum number of honors course per term if you like. It then divides by the number of terms encountered to achieve the final Add-On Value.