



# 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			
СР	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:

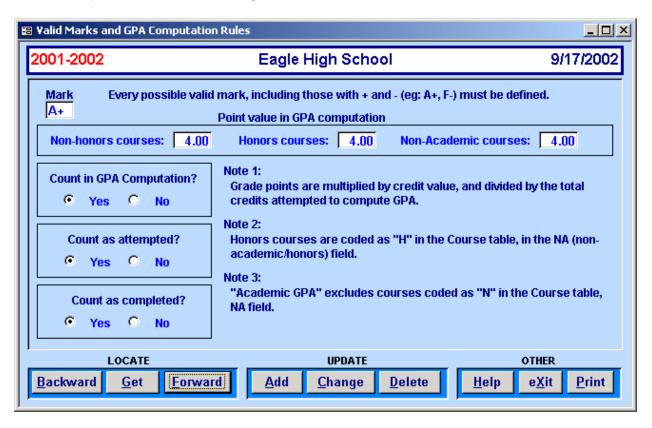
Field Code	Field Name	Description
CC	CCGPA	Cumulative Citizenship GPA calculated from Course History
GC	GCGPA	Grades Citizenship GPA calculated from the current citizenship mark in the Grade Reporting (GRD) table

### 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.



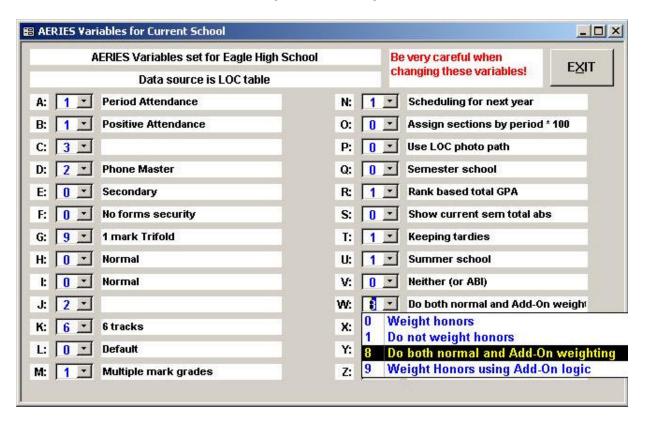
On the left side of the form there are **Yes/No** radio buttons under the **Count in GPA Computation?** which indicate whether the mark is to be used when calculating a student's GPA.

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.



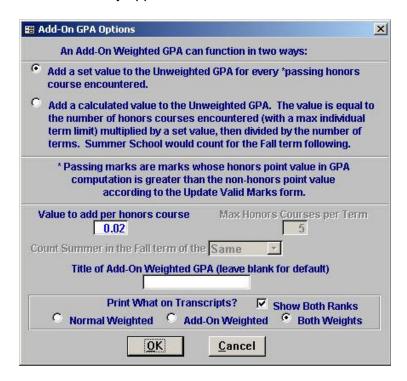
Aeries supports storing the Add-On Weighted GPAs in the regular weighted fields for each GPA or in a completely different set of fields so that both the traditional Weighted GPA and the Add-On Weighted GPA will be able to be queried and printed.

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

	Grade Repo	orting (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.



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.