

# GPA CALCULATION AND THE QUERY FIELDS USED

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## GPA CALCULATION

In order to create a numerical average (GPA), each mark is converted to a point value using the Grade Code (GRC) table. All marks that are used for report cards and transcripts must be defined using this form.

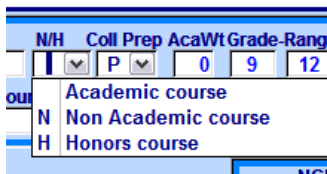
There are two fields, Non-honors courses and Honors courses that are used in the point value in GPA computation. These two fields must contain a value for each mark that is defined.

*The Grade Points are multiplied by the **credit value** and then divided by the total credits attempted.*

## 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. There are 5 types of GPA's in Aeries:

- The Total GPA **includes all** courses that a student has taken. The total GPA can either be a **weighted** (extra value point for honors, AP, and IB courses) or a **non-weighted** (extra value point not included) point value and can be calculated from the current grade marking period or from the cumulative courses from the student's transcript.
- The Academic GPA **excludes all** non-academic courses that a student has taken. A non-academic course is **any** course that has an "N" in the N/H field of the courses (CRS) table. Some examples of non-academic courses are physical education and ROTC courses. The academic GPA can be based on either a **weighted** point value or a **non-weighted** point value.



The screenshot shows a form with several fields. The first field is a dropdown menu with 'N/H' selected. The second field is a dropdown menu with 'P' selected. The third field is a text box containing '0'. The fourth field is a text box containing '9'. The fifth field is a text box containing '12'. Below these fields is a list of options: 'Academic course', 'N Non Academic course', and 'H Honors course'. The 'Academic course' option is currently selected.

- 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. The 10-12 academic GPA can be based on either a **weighted** or **non-weighted** point value and can only be calculated from the student's transcript file.

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- 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/H field of the courses (CRS) table.
- A non-weighted GPA will not include extra grade points for honors courses that a student has taken.

## Cumulative GPAs from HIS file

Course Tags: * = Non Academic + = Honors (W)		Weighted Non-Wgtd	
Acad GPA (9-12)	3.73	3.67	
Acad GPA (10-12)	3.80	3.60	
Total GPA (9-12)	3.78	3.72	
Credit Attempted:	90.00		
Credit Completed:	90.00		
Class Size:	703		
Class Rank:	71	10-12 Rank:	68
Ranked by Weighted Total GPA			

(W) Acad GPA	3.73	3.67
(W) Total GPA	3.78	3.72
(W) 10-12 GPA	3.80	3.60
Credit Att/ Cmpl	90.00	90.00
Class Rank/Size	71 of	703

## Current marking period GPAs

Note: You are currently using the highlighted mark. Click on Field Headings to turn tabstops On and Off

Pd	Cr	ID	Title	Tch#	Name	1st Prg	1st Qtr	2nd Prg	2nd Qtr	1st Sem	3rd Prg	3rd Qtr	4th Prg	4th Qtr	2nd Sem	Cred	Cit	WH	Abs	Tdy	Comments	
1	123011	Algebra 2	964			A		A	A							5.00			0	1	10	
2	142031	Chem Hnrs	081			NM	B	B	B							5.00			0	0	09	10
3	112031	Wld Lit/Comj	033			B		B	B							5.00			0	0	03	
4	132011	Wld Hst/Cult	041			A		A-	A-							5.00			0	0	09	
5	151211	Spanish 2	104			A		B+	A-							5.00			2	0	03	09
6	162010	Physical Ed	765			A		A	A							5.00			4	0	09	

Record: 1 of 6

Academic GPA	(W) 3.8000	3.6000	Total GPA	(W) 3.8333	3.6667	Credit Att and Cmpl	30.00	30.00	Class Rank and Size	68 of 703	Recompute
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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.

Field Code	GPA Description	Source File
GG	Academic Weighted	Current Marking Period
GT	Total Weighted	Current Marking Period
GGN	Academic Non-Weighted	Current Marking Period
GTN	Total Non-Weighted	Current Marking Period
GA	Credit Attempted	Current Marking Period
GD	Credit Completed	Current Marking Period
GK	Class Rank	Current Marking Period
GS	Class Size	Current Marking Period

Field Code	GPA Description	Source File
GP	Academic Weighted	Cumulative (HIS)
TP	Total Weighted	Cumulative (HIS)
CP	10-12 Academic Weighted	Cumulative (HIS)
GPN	Academic Non-Weighted	Cumulative (HIS)
TPN	Total Non-Weighted	Cumulative (HIS)
CPN	10-12 Academic Non-Weighted	Cumulative (HIS)
CA	Credit Attempted	Cumulative (HIS)
CC	Credit Completed	Cumulative (HIS)
CS	Class Size	Cumulative (HIS)
CR	Class Rank (9-12)	Cumulative (HIS)
UR	Class Rank (10-12)	Cumulative (HIS)