



**BOE/CO  
Friday Packet  
August 16, 2024**

Upcoming Meeting Dates

8-16-2024 AP Score and Class Average Memo, Dr. Zavodjancik



Upcoming Board of Education Meeting Dates

*August 2024*

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	<b>16</b> <b>12:00 PM</b> <b>Facilities</b>	17
18	19	20	21	22	23	24
25	<b>26</b> <b>5:00 PM</b> <b>Policy</b>	<b>27</b> <i>First Day of School</i> <b>5:30 PM</b> <b>Special</b> <b>7:00 PM</b> <b>Regular</b>	28	29	30	31

**August 16**                      **12:00 PM**      Facilities Committee Special Meeting  
Superintendent Conference Room  
501 Kings Hwy East

**August 26**                      **5:00 PM**      Policy Committee  
Superintendent Conference Room  
501 Kings Hwy East

**August 27**                      **5:30 PM**      Special Meeting/Executive Session  
Superintendent Conference Room  
501 Kings Hwy East

**7:00 PM**      Regular Meeting  
CO Board Room  
501 Kings Hwy East



**To:** Mr. Michael Testani, Superintendent of Schools

**From:** James Zavodjancik, Chief Academic Officer

**Date:** August 16, 2024

**Re:** Advanced Placement Scores and Classroom Average Association

The relationship between students' final average in an AP course and College Board Advanced Placement score was requested.

### Data Summary

Data Range for Advanced Placement	Scores 1-5
Data Ranges for Final Grades	61-100

Assessment	Number	Mean	Standard Deviation
Course Final Grade	1960	88.90	6.32
AP Scores	1960	3.584	1.11

### Inferential Statistic

A Spearman's correlation was used to determine if there is an association between AP scores and class grades. Data for all classes were analyzed together. Therefore, scores and grades were not analyzed individually by class to determine the relationship.

It was determined that AP Scores have a significant correlation with course grades, with a positive moderate correlation,  $r_s(1958) = .466, p < .001$ . A moderately correlated Spearman value indicates that one variable may predict the other variable. This does not indicate that one variable has causation to another variable.

### Descriptive Statistics by AP Course

For each data table below, the AP Score is listed horizontally, and the final grade letter grade equivalent is vertical. Letter grades were combined in one category. For example, A+, A, and A- are all contained in the A row. The numbers in the grid are the counts of students who scored at each corresponding level (e.g., 6 students scored a 3 on the AP Biology exam and earned a B in the FPS's AP Biology course).

Note: Data included are students who opted to take the AP assessment. There are more students who enrolled and completed the class without an AP score.

**Biology**

	5	4	3	2	1
A	11	8	4		
B	1	5	6	1	
C	2		4	2	
D			1		

**AP Calculus AB**

	5	4	3	2	1
A	10	12	5	2	
B		20	13	16	
C		3	2	4	2
D		1		2	

**AP Calculus BC**

	5	4	3	2	1
A	22		1		
B	8	7	5	4	1
C		1	1	1	
D				3	

**Chemistry**

	5	4	3	2	1
A	21	29	8		
B	4	4	21	2	
C		1	4	1	

**Comparative Government and Politics**

	5	4	3	2	1
A	28	28	3	2	1
B	4	17	16	1	
C		2	1		2

**Computer Science Principles**

	5	4	3	2	1
A	1	3	9	4	
B		3	6	1	
C			2	1	
D					1

**English Language and Composition**

	5	4	3	2	1
A	63	73	32	33	1
B	12	24	39	24	12
C	1	1	3	4	

**English Literature and Composition**

	5	4	3	2	1
A	17	14	6	1	
B		6	1	2	

**Environmental Science**

	5	4	3	2	1
A	7	12	1		
B	1	4	16	16	
C		2	4	4	2

**European History**

	5	4	3	2	1
A	20	21	17	13	
B	3	20	12	6	
C		2	1		

**French Language and Culture**

	5	4	3	2	1
A		6	6	4	
B		1	2	3	1
C				1	

**Macroeconomics**

	5	4	3	2	1
A	14	16	6		
B	6	14	14	4	2
C		4	6	4	
D			1	3	

**Microeconomics**

	5	4	3	2	1
A	16	14	1		
B	5	20	19	1	
C		2	7	6	1
D					1

**Physics I**

	5	4	3	2	1
A	7	22	28	21	8
B		3	5	6	4
C				2	2
D					1

**Macroeconomics**

	5	4	3	2	1
A	14	16	6		
B	6	14	14	4	2
C		4	6	4	
D			1	3	

**Physics C: Electricity and Mechanics**

	5	4	3	2	1
A	5	1	8	2	1
B				4	1
C					2

**Physics C: Mechanics**

	5	4	3	2	1
A	5	12	3	2	1
B		1	4	2	1
C			1		

**Psychology**

	5	4	3	2	1
A	15	17	8	3	1
B	3	10	13	6	4
C			5	4	1
D				1	1

**Spanish Language and Culture**

	5	4	3	2	1
A	11	13	6		
B	4	11	7		
C		1			

**Statistics**

	5	4	3	2	1
A	18	18	5		
B	1	8	10	9	2
C			5	5	1
D			1		

**US Government and Politics**

	5	4	3	2	1
A	21	11	2	1	
B	7	7	15	5	
C		1		4	1
D				1	1

**US History**

	5	4	3	2	1
A	66	59	16	6	2
B	12	50	20	9	3
C			1	4	6
D			1	1	

Include data from AP Lang and Comp. American Studies/ American Studies

The following courses are not reported in the above distribution tables due to enrollment numbers:

- AP 2-D Art and Design (< 20 students)
- 3D Art and Design (< 10 students)
- Computer Science A (< 20 students)
- Drawing (<1 5 students)
- Latin (< 5 students)