

## 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

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



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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
Α	11	8	4		
В	1	5	6	1	
С	2		4	2	
D			1		
P Calculus Al	3				
	5	4	3	2	1
Α	10	12	5	2	
В		20	13	16	
С		3	2	4	2
D		1		2	
AP Calculus B	C				
	5	4	3	2	1
Α	22		1		
В	8	7	5	4	1
С		1	1	1	
D			-	3	
Chemistry					
· · · · · · ·	5	4	3	2	1
		20	8		
Α	21	29	0		
				2	
A B C	21 4	29 4 1	8 21 4	2 1	
B C	4 overnment and	4 1 d Politics	21 4	1	
B C	4 overnment and 5	4 1 1 Politics 4	21 4 <b>3</b>	1 2	1
B C	4 overnment and	4 1 d Politics	21 4	1	<b>1</b> 1
B C Comparative G	4 overnment and 5	4 1 1 Politics 4	21 4 <b>3</b>	1 2	
B C Comparative G A	4 overnment and 5 28	4 1 <b>d Politics</b> <u>4</u> 28	21 4 3 3	1 2 2	
B C Comparative G A B C	4 overnment and 5 28 4	4 1 4 Politics 4 28 17 2	21 4 3 3 16	1 2 2	1
B C Comparative G A B C	4 overnment and 5 28 4 nce Principles 5	4 1 <b>4 Politics</b> <b>4</b> 28 17 2 2	21 4 3 3 16	1 2 2	1
B C Comparative G A B C	4 overnment and 5 28 4 nce Principles	4 1 4 Politics 4 28 17 2 2 4 3	21 4 3 16 1	1 2 1	1 2
B C Comparative G A B C C Computer Scie	4 overnment and 5 28 4 nce Principles 5	4 1 <b>4 Politics</b> <b>4</b> 28 17 2 2	21 4 3 16 1 3	1 2 2 1 2	1 2
B C Comparative G A B C C Computer Scie A	4 overnment and 5 28 4 nce Principles 5	4 1 4 Politics 4 28 17 2 2 4 3	21 4 3 16 1 3 9	1 2 2 1 2	1 2
B Comparative G A B C Computer Scie A B	4 overnment and 5 28 4 nce Principles 5	4 1 4 Politics 4 28 17 2 2 4 3	21 4 3 3 16 1 1 <b>3</b> 9 6	1 2 2 1 2 1 2 1 2 2 1 2 4 1	1 2
B C Comparative G A B C C Computer Scie A B C D	4 overnment and 5 28 4 nce Principles 5 1	4 1 4 Politics 4 28 17 2 2 4 3 3 3	21 4 3 3 16 1 1 <b>3</b> 9 6	1 2 2 1 2 1 2 1 2 2 1 2 4 1	1 2 1
B C Comparative G A B C C Computer Scie A B C D D	4 overnment and 5 28 4 nce Principles 5 1 age and Compo 5	4 1 <b>4</b> Politics <b>4</b> 28 17 2 <b>4</b> 3 3 3 <b>55ition</b> <b>4</b>	21 4 3 16 1 1 3 9 6 2 2 3	1 2 2 1 2 1 1 2 4 1 1 1 2	1 2 1 1
B C Comparative G A B C C Computer Scie A B C D	4 overnment and 5 28 4 4 nce Principles 5 1 age and Compo	4 1 <b>4</b> Politics <b>4</b> 28 17 2 <b>4</b> 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5	21 4 3 16 1 1 <b>3</b> 9 6 2	1 2 2 1 2 1 1 2 1 1 1	1 2 1
B C Comparative G A B C Computer Scie A B C D English Langua	4 overnment and 5 28 4 nce Principles 5 1 age and Compo 5	4 1 <b>4</b> Politics <b>4</b> 28 17 2 <b>4</b> 3 3 3 <b>55ition</b> <b>4</b>	21 4 3 3 16 1 1 3 9 6 2 2 3 32	1 2 2 1 2 1 1 2 4 1 1 1 2	1 2 1 1
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B C Comparative G A B C C Computer Scie A B C D English Langua A B C C	4 overnment and 5 28 4 nce Principles 5 1 age and Compo 5 63 12 1 ure and Compo 5	4 1 <b>Politics</b> <b>4</b> 28 17 2 <b>4</b> 3 3 3 <b>5</b> <b>5</b> <b>4</b> 73 24 1 <b>5</b> <b>4</b> 73 24 1 <b>5</b> <b>4</b> <b>4</b> <b>7</b> 3 <b>3</b> <b>5</b> <b>4</b> <b>4</b> <b>5</b> <b>6</b> <b>1</b> <b>1</b> <b>7</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	21 4 3 3 16 1 1 3 9 6 2 2 3 9 6 2 2 3 9 6 2 3 3 3 2 39 3 3 3 2 39 3 3	1 2 2 1 2 1 1 2 4 1 1 1 2 33 24 4 4 2	1 2 1 1 1 1
B C Comparative G A B C C Computer Scie A B C D English Langua A B C D	4 overnment and 5 28 4 nce Principles 5 1 age and Compo 5 63 12 1 ure and Compo	4 1 <b>4</b> 28 17 2 <b>4</b> 3 3 3 <b>55ition</b> <b>4</b> 73 24 1 <b>55ition</b>	21 4 3 3 16 1 1 3 9 6 2 2 3 9 6 2 2 3 9 3 3 3 2 39 3 3	1 2 2 1 2 1 1 2 4 1 1 1 2 33 24 4 4	1 2 1 1 1 1 12

Environmental S	Science				
	5	4	3	2	1
A	7	12	1		-
B	1	4	16	16	
Č	I	2	4	4	2
0		2	4	4	2
European Histor					
	5	4	3	2	1
A	20	21	17	13	
В	3	20	12	6	
С		2	1		
French Languag	e and Culture	2			
<u> </u>	5	4	3	2	1
A	-	6	6	4	
B		1	2	3	1
c		•	-	1	•
0					
Macroeconomic					
	5	4	3	2	1
Α	14	16	6		
В	6	14	14	4	2
C		4	6	4	
D			1	3	
Microeconomics					
	5	4	3	2	1
A	16	<u> </u>	<u> </u>	Ζ	
B	5	20	19	1	
C	5	20	7	6	1
		Z	1	0	1
U					1
Physics I					
	5	4	3	2	1
A	7	22	28	21	8
В		3	5	6 2	4
C				2	4 2
D					1
Macroeconomic	S				
	5	4	3	2	1
Α	14	16	6		
B	6	14	14	4	2
Ē	-	4	6	4	
D		- 	1	3	
Physics C: Elast	rigity and Ma	chanics			
Physics C: Elect	5	chanics 4	3	2	1
Α	5	1	8	2	1
B	0	I I	0	4	1
C				4	2
<u> </u>					۷

	5	4	3	2	1
Α	5	12	3	2	1
B	Ū	1	4	2	1
C			1	2	
Psychology					
	5	4	3	2	1
Α	15	17	8	3	1
В	3	10	13	6	4
С			5	4	1
D				1	1
Spanich Langu					
Spanish Langu	<u>age and Cultur</u> 5	4	3	2	1
Α	11	13	6	-	•
B	4	11	7		
C	7	1	1		
U U		I			
Statistics					
	5	4	3	2	1
Α	18	18	5		
В	1	8	10	9	2
С			5	5	1
D			1	-	
10.0					
JS Governmen	t and Politics 5	4	3	2	1
Α	<u>5</u> 21	<u> </u>	2	<u> </u>	
B					
	7	7	15	5	4
		1		4	1
С				1	1
C D					
С	5	4	3	2	1
C D	<b>5</b> 66	<b>4</b> 59	<b>3</b> 16	<b>2</b> 6	
C D JS History A	66	59	16	6	2
C D JS History					

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)