



Secondary Mathematics

January 2018

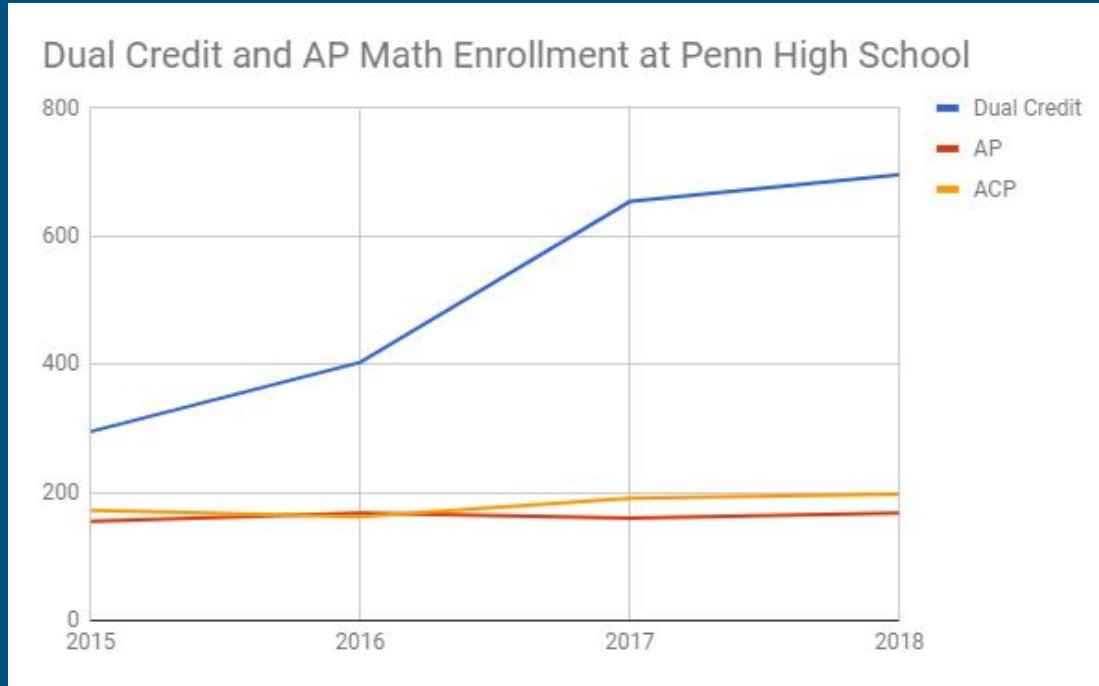


Math Course Offerings

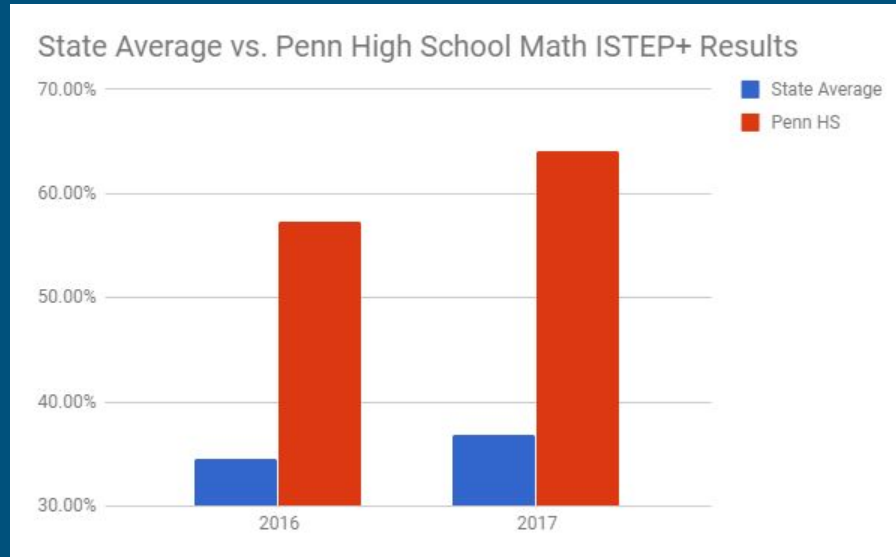
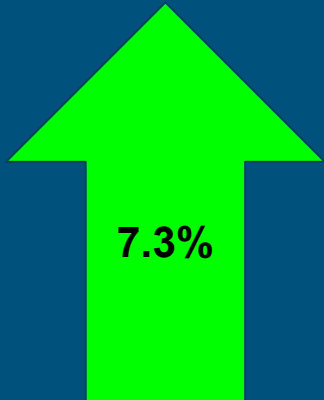
Grade 9	Grade 10	Grade 11	Grade 12
Algebra I	Algebra II	Geometry	Pre-Calculus, College Algebra, Bridge Math
Geometry Accelerated	Algebra II (Acc or Honors)	Pre-Calculus/ Trigonometry (Acc or Honors)	Finite, ACP Bus. Calculus, ACP Calculus 215
Algebra II Honors	Pre-Calculus/ Trigonometry (Acc or Honors)	AP Calculus AB, ACP Calculus 215	AP Calculus BC ACP Calculus 216
Pre-Calculus/ Trigonometry Honors	AP Calculus AB	AP Calculus BC	Multivariable Calc / Differential Equations

AP Statistics can be taken anytime after Algebra II.

Math Course Offerings



Math ISTEP+ (grade 10)



Math ISTEP+ (grade 10)

Spring 2016 Testing

At **57.3%** passing, Penn ranks **11th** of public schools in Indiana.

In comparison with local schools:

Career Academy High School	22.4%
Mishawaka	25.8%
Elkhart Central	30.7%
Elkhart Memorial	31.9%
Northridge	38.8%
Marian	53.8%
St. Joseph	61.9%

Spring 2017 Testing

Penn increases to **64.6%** passing, and ranks **8th** highest among public schools in Indiana.

In comparison with local schools:

Career Academy High School	33.9%
Mishawaka	37.5%
Elkhart Central	30.8%
Elkhart Memorial	33.8%
Northridge	46.9%
Marian	44.4%
St. Joseph	53.9%

AP Statistics Results

	% Scores Passing (3 - 5)	Avg. score	Participation
0767 Statistics	Statistics		
2009-10	57.4%	2.74	31
2010-11	52.6%	2.70	40
2011-12	63.8%	2.94	51
2012-13	57.4%	2.75	35
2013-14	65.7%	3.19	46
2014-15	78.5%	3.25	51
2015-16	74.6%	3.04	53
2016-17	78.1%	3.39	50

2017 International Information

AP Statistics

215,840 students participated

54.3% passed, 2.72 average score

AP Calculus Results

	% Scores Passing (3 - 5)	Avg. score	Participation
0737 Calculus AB	Calculus AB		
2009-10	93.8%	4.30	60
2010-11	97.6%	4.48	41
2011-12	100.0%	4.81	64
2012-13	98.2%	4.65	56
2013-14	100.0%	4.78	51
2014-15	100.0%	4.56	48
2015-16	96.4%	4.38	53
2016-17	98.2%	4.38	55
0745 Calculus BC	Calculus BC		
2009-10	94.7%	4.42	18
2010-11	100.0%	4.41	22
2011-12	94.1%	4.18	16
2012-13	100.0%	4.89	36
2013-14	100.0%	4.90	29
2014-15	100.0%	4.82	33
2015-16	100.0%	4.78	37
2016-17	93.5%	4.68	29

2017 International Information

AP Calculus AB

316,099 students participated

57.5% passed, 2.93 average score

AP Calculus BC

132,514 students participated

80.6% passed, 3.78 average score

Keys to Success

Teacher Collaboration (PLC work)

Flexibility

Ongoing data information

Professional Development

Student support

Focus on standards, not textbooks



Q&A

The following are topics related to questions asked in advance.
All of these will be addressed at the meeting.

Calculus summer prep class

Algebra summer prep class

Spiraling

Lessons aligned to textbook

Online textbooks

Learner development at different ages

