## ANNUAL INDI ANA ADVANCED PLACEMENT PERFORMANCE REPORT 2016

Indiana Department of Education
Jeremy Eltz, Ph.D. Assistant Director, College \& Career Readiness
jeltz@doe.in.gov

## OVERVI EW OF AP IN INDI ANA, 2016

Participation and Success
Advanced Placement (AP) is a research-backed method to facilitate student participation and success through delivery of college-level courses and corresponding exams in the high school setting to qualified high school students. Students who demonstrate success in AP courses are predicted to outperform their peers who do not take or have not had success in these courses. The current research suggests passing/qualifying on an exam (scoring a 3, 4, or 5 on a scale of 1-5) is predictive of greater college success. ${ }^{1}$ The Indiana Department of Education (IDOE) has committed to expanding participation and success on AP exams in order to have the highest percent of college-educated citizens in the United States.

The College Board collects individual student-level AP performance data throughout each student's secondary school experience. Using that data, the College Board publishes an annual "AP Report to the Nation" that provides individual state performance levels which may serve as comparative data. Associated with the research, the most important data presented is the number of graduates for the published year that passed an AP exam at some point during their high school career; the IDOE refers to this as the College Board Metric (CBM).

The formula for improving outcomes in Indiana on AP coursework must include an increase in both participation and success more students, in all demographics, participating in AP coursework and the corresponding exam, and a greater percentage of those students passing the AP exam.

The IDOE goal in 2016 was to have $25 \%$ of Hoosier graduates earn college credit through AP, IB or dual credit at some point in their high school career; achieving this metric would place Indiana among the top performing states in the nation. The AP Annual Performance Report includes an action plan to reach this goal.

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## AP: Participation and Performance Overview

|  | Indiana - All Schools |  |  |  | Total Group - All Schools |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \# of ExamTakers | \% of Total | \# of Exams <br> Taken | $\begin{gathered} \# \text { of Scores } \\ 3-5 \end{gathered}$ | \# of ExamTakers | \% of Total | \# of Exams <br> Taken | $\begin{gathered} \# \text { of Scores } \\ 3-5 \end{gathered}$ |
| $\overline{\text { ¢ Total }}$ | 48,803 | 100.0\% | 81,952 | 41,311 | 2,611,172 | 100.0\% | 4,704,980 | 2,729,043 |
| Change from last year | +5.0\% |  | +6.3\% | +5.5\% | +5.1\% |  | +5.0\% | +5.1\% |
| Female | 27,500 | 56.3\% | 44,995 | 21,233 | 1,468,967 | 56.3\% | 2,582,597 | 1,434,235 |
| Change from last year | +5.7\% |  | +7.2\% | +7.2\% | +5.8\% |  | +5.9\% | +6.0\% |
| Male Change from last year | 21,303 | 43.7\% | 36,957 | 20,078 | 1,142,205 | 43.7\% | 2,122,383 | 1,294,808 |
|  | +4.1\% |  | +5.2\% | +3.8\% | +4.3\% |  | +4.0\% | +4.2\% |
| American Indian Change from last year | 134 | 0.3\% | 204 | 85 | 8,457 | 0.3\% | 13,186 | 4,864 |
|  | - |  | - | - | - |  | - | - |
| Asian <br> Change from last year | 2,517 | 5.2\% | 5,710 | 3,967 | 335,228 | 12.8\% | 737,699 | 517,483 |
|  | - |  | - | - | - |  | - | - |
| Black <br> Change from last year | 2,686 | 5.5\% | 4,094 | 983 | 188,039 | 7.2\% | 295,745 | 87,569 |
|  | - |  | - | - | - |  | - | - |
| Hispanic or Latino Change from last year | 3,940 | 8.1\% | 6,334 | 2,369 | 575,432 | 22.0\% | 978,513 | 419,234 |
|  | - |  | - | - | - |  | - |  |
| Pacific Islander Change from last year | 25 | 0.1\% | 43 | 23 | 4,785 | 0.2\% | 7,830 | 3,275 |
|  | - |  | - | - | - |  | - |  |
| White Change from last year | 37,052 | 75.9\% | 61,536 | 31,991 | 1,347,688 | 51.6\% | 2,410,243 | 1,546,500 |
|  | - |  | - | - |  |  | - |  |
| Two or More Races Change from last year | 1,781 | 3.6\% | 2,994 | 1,454 | 108,282 | 4.1\% | 192,731 | 112,891 |
|  | - |  | - | - | - |  | - | - |
| Other <br> Change from last year | 38 | 0.1\% | 79 | 34 | 2,203 | 0.1\% | 5,423 | 3,759 |
|  | - |  | - | - |  |  | - | - |
| No Response Change from last year | 630 | 1.3\% | 958 | 405 | 41,058 | 1.6\% | 63,610 | 33,468 |
|  | - |  | - | - | - |  | - | - |

## AP: Exam Participation and Performance (Part 1 of 3)

|  | '14-'15 |  |  |  |  |  |  | '15-'16 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \# of Exams | \% of Total | Score of 1 | Score of 2 | $\begin{gathered} \text { Score of } \\ 3 \end{gathered}$ | Score of 4 | $\begin{gathered} \text { Score of } \\ 5 \end{gathered}$ | \# of Exams | \% of Total | $\begin{gathered} \text { Score of } \\ 1 \end{gathered}$ | $\begin{gathered} \text { Score of } \\ 2 \end{gathered}$ | $\begin{gathered} \text { Score of } \\ 3 \end{gathered}$ | $\begin{gathered} \text { Score of } \\ 4 \end{gathered}$ | $\begin{gathered} \text { Score of } \\ 5 \end{gathered}$ |
| Total \# of Exams | 77,086 | 100\% | 18,087 | 19,848 | 19,119 | 12,558 | 7,474 | 81,952 | 100\% | 18,796 | 21,845 | 19,497 | 13,302 | 8,512 |
| Art History \% of Total | 333 | 0\% | $\begin{gathered} 137 \\ 41 \% \end{gathered}$ | $\begin{gathered} 63 \\ 19 \% \end{gathered}$ | $\begin{gathered} 77 \\ 23 \% \end{gathered}$ | $\begin{gathered} 38 \\ 11 \% \end{gathered}$ | $\begin{gathered} 18 \\ 5 \% \end{gathered}$ | 317 | 0\% | $\begin{gathered} 56 \\ 18 \% \end{gathered}$ | $\begin{gathered} 87 \\ 27 \% \end{gathered}$ | $\begin{gathered} 93 \\ 29 \% \end{gathered}$ | $\begin{gathered} 56 \\ 18 \% \end{gathered}$ | $\begin{gathered} 25 \\ 8 \% \end{gathered}$ |
| Art: Studio 2D-Design \% of Total | 456 | 1\% | $\begin{gathered} 20 \\ 4 \% \end{gathered}$ | $\begin{gathered} 93 \\ 20 \% \end{gathered}$ | $\begin{gathered} 148 \\ 32 \% \end{gathered}$ | $\begin{gathered} 116 \\ 25 \% \end{gathered}$ | $\begin{gathered} 79 \\ 17 \% \end{gathered}$ | 465 | 1\% | $\begin{gathered} 7 \\ 2 \% \end{gathered}$ | $\begin{gathered} 110 \\ 24 \% \end{gathered}$ | $\begin{gathered} 150 \\ 32 \% \end{gathered}$ | $\begin{gathered} 128 \\ 28 \% \end{gathered}$ | $\begin{gathered} 70 \\ 15 \% \end{gathered}$ |
| Art: Studio 3D-Design \% of Total | 110 | 0\% | $\begin{gathered} 4 \\ 4 \% \end{gathered}$ | $\begin{gathered} 13 \\ 12 \% \end{gathered}$ | $\begin{gathered} 40 \\ 36 \% \end{gathered}$ | $\begin{gathered} 32 \\ 29 \% \end{gathered}$ | $\begin{gathered} 21 \\ 19 \% \end{gathered}$ | 129 | 0\% | $\begin{gathered} 2 \\ 2 \% \end{gathered}$ | $\begin{gathered} 29 \\ 22 \% \end{gathered}$ | $\begin{gathered} 45 \\ 35 \% \end{gathered}$ | $\begin{gathered} 39 \\ 30 \% \end{gathered}$ | $\begin{gathered} 14 \\ 11 \% \end{gathered}$ |
| Art: Studio Drawing \% of Total | 285 | 0\% | $\begin{gathered} 20 \\ 7 \% \end{gathered}$ | $\begin{gathered} 56 \\ 20 \% \end{gathered}$ | $\begin{gathered} 110 \\ 39 \% \end{gathered}$ | $\begin{gathered} 60 \\ 21 \% \end{gathered}$ | $\begin{gathered} 39 \\ 14 \% \end{gathered}$ | 267 | 0\% | $\begin{gathered} 4 \\ 1 \% \end{gathered}$ | $\begin{gathered} 50 \\ 19 \% \end{gathered}$ | $\begin{gathered} 89 \\ 33 \% \end{gathered}$ | $\begin{gathered} 69 \\ 26 \% \end{gathered}$ | $\begin{gathered} 55 \\ 21 \% \end{gathered}$ |
| Biology <br> \% of Total | 4,534 | 6\% | $\begin{aligned} & 466 \\ & 10 \% \end{aligned}$ | $\begin{gathered} 1,528 \\ 34 \% \end{gathered}$ | $\begin{gathered} 1,488 \\ 33 \% \end{gathered}$ | $\begin{aligned} & 833 \\ & 18 \% \end{aligned}$ | $\begin{aligned} & 219 \\ & 5 \% \end{aligned}$ | 4,930 | 6\% | $\begin{gathered} 710 \\ 14 \% \end{gathered}$ | $\begin{gathered} \text { 1,576 } \\ 32 \% \end{gathered}$ | $\begin{gathered} 1,628 \\ 33 \% \end{gathered}$ | $\begin{gathered} 793 \\ 16 \% \end{gathered}$ | $\begin{aligned} & 223 \\ & 5 \% \end{aligned}$ |
| Chemistry <br> \% of Total | 3,718 | 5\% | $\begin{gathered} 1,138 \\ 31 \% \end{gathered}$ | $\begin{gathered} 1,060 \\ 29 \% \end{gathered}$ | $\begin{gathered} 929 \\ 25 \% \end{gathered}$ | $\begin{aligned} & 383 \\ & 10 \% \end{aligned}$ | $\begin{aligned} & 208 \\ & 6 \% \end{aligned}$ | 3,529 | 4\% | $\begin{gathered} 1,005 \\ 28 \% \end{gathered}$ | $\begin{gathered} \text { 1,026 } \\ 29 \% \end{gathered}$ | $\begin{gathered} 883 \\ 25 \% \end{gathered}$ | $\begin{gathered} 405 \\ 11 \% \end{gathered}$ | $\begin{aligned} & 210 \\ & 6 \% \end{aligned}$ |
| Chinese Language and Culture \% of Total | 29 | 0\% | $\begin{gathered} 4 \\ 14 \% \end{gathered}$ | $\begin{gathered} 4 \\ 14 \% \end{gathered}$ | $\begin{gathered} 6 \\ 21 \% \end{gathered}$ | $\begin{gathered} 2 \\ 7 \% \end{gathered}$ | $\begin{gathered} 13 \\ 45 \% \end{gathered}$ | 41 | 0\% | $\begin{gathered} 9 \\ 22 \% \end{gathered}$ | $\begin{gathered} 3 \\ 7 \% \end{gathered}$ | $\begin{gathered} 13 \\ 32 \% \end{gathered}$ | $\begin{gathered} 4 \\ 10 \% \end{gathered}$ | $\begin{gathered} 12 \\ 29 \% \end{gathered}$ |
| Computer Science A \% of Total | 691 | 1\% | $\begin{gathered} 260 \\ 38 \% \end{gathered}$ | $\begin{gathered} 57 \\ 8 \% \end{gathered}$ | $\begin{gathered} 102 \\ 15 \% \end{gathered}$ | $\begin{gathered} 136 \\ 20 \% \end{gathered}$ | $\begin{gathered} 136 \\ 20 \% \end{gathered}$ | 782 | 1\% | $\begin{gathered} 248 \\ 32 \% \end{gathered}$ | $\begin{gathered} 133 \\ 17 \% \end{gathered}$ | $\begin{gathered} 158 \\ 20 \% \end{gathered}$ | $\begin{aligned} & 133 \\ & 17 \% \end{aligned}$ | $\begin{gathered} 110 \\ 14 \% \end{gathered}$ |
| Economics: Macroeconomics \% of Total | 1,401 | 2\% | $\begin{gathered} 446 \\ 32 \% \end{gathered}$ | $\begin{gathered} 246 \\ 18 \% \end{gathered}$ | $\begin{gathered} 241 \\ 17 \% \end{gathered}$ | $\begin{gathered} 300 \\ 21 \% \end{gathered}$ | $\begin{gathered} 168 \\ 12 \% \end{gathered}$ | 1,496 | 2\% | $\begin{aligned} & 428 \\ & 29 \% \end{aligned}$ | $\begin{gathered} 292 \\ 20 \% \end{gathered}$ | $\begin{gathered} 232 \\ 16 \% \end{gathered}$ | $\begin{gathered} 317 \\ 21 \% \end{gathered}$ | $\begin{aligned} & 227 \\ & 15 \% \end{aligned}$ |
| Economics: Microeconomics \% of Total | 1,518 | 2\% | $\begin{aligned} & 427 \\ & 28 \% \end{aligned}$ | $\begin{gathered} 239 \\ 16 \% \end{gathered}$ | $\begin{gathered} 319 \\ 21 \% \end{gathered}$ | $\begin{gathered} 336 \\ 22 \% \end{gathered}$ | $\begin{aligned} & 197 \\ & 13 \% \end{aligned}$ | 1,839 | 2\% | $\begin{gathered} 546 \\ 30 \% \end{gathered}$ | $\begin{gathered} 306 \\ 17 \% \end{gathered}$ | $\begin{gathered} 412 \\ 22 \% \end{gathered}$ | $\begin{gathered} 384 \\ 21 \% \end{gathered}$ | $\begin{gathered} 191 \\ 10 \% \end{gathered}$ |
| English Language \& Composition \% of Total | 9,432 | 12\% | $\begin{gathered} 1,409 \\ 15 \% \end{gathered}$ | $\begin{gathered} 3,065 \\ 32 \% \end{gathered}$ | $\begin{gathered} 2,559 \\ 27 \% \end{gathered}$ | $\begin{gathered} 1,590 \\ 17 \% \end{gathered}$ | $\begin{aligned} & 809 \\ & 9 \% \end{aligned}$ | 10,587 | 13\% | $\begin{gathered} 1,645 \\ 16 \% \end{gathered}$ | $\begin{gathered} 3,891 \\ 37 \% \end{gathered}$ | $\begin{gathered} 2,652 \\ 25 \% \end{gathered}$ | $\begin{gathered} 1,540 \\ 15 \% \end{gathered}$ | $\begin{aligned} & 859 \\ & 8 \% \end{aligned}$ |
| English Literature \& Composition \% of Total | 7,811 | 10\% | $\begin{aligned} & 741 \\ & 9 \% \end{aligned}$ | $\begin{gathered} 3,039 \\ 39 \% \end{gathered}$ | $\begin{gathered} 2,432 \\ 31 \% \end{gathered}$ | $\begin{gathered} 1,204 \\ 15 \% \end{gathered}$ | $\begin{aligned} & 395 \\ & 5 \% \end{aligned}$ | 8,807 | 11\% | $\begin{aligned} & 987 \\ & 11 \% \end{aligned}$ | $\begin{gathered} 3,655 \\ 42 \% \end{gathered}$ | $\begin{gathered} 2,544 \\ 29 \% \end{gathered}$ | $\begin{gathered} 1,211 \\ 14 \% \end{gathered}$ | $\begin{aligned} & 410 \\ & 5 \% \end{aligned}$ |
| Environmental Science \% of Total | 3,007 | 4\% | $\begin{gathered} 924 \\ 31 \% \end{gathered}$ | $\begin{gathered} 889 \\ 30 \% \end{gathered}$ | $\begin{aligned} & 445 \\ & 15 \% \end{aligned}$ | $\begin{gathered} 594 \\ 20 \% \end{gathered}$ | $\begin{aligned} & 155 \\ & 5 \% \end{aligned}$ | 3,389 | 4\% | $\begin{gathered} 1,119 \\ 33 \% \end{gathered}$ | $\begin{gathered} 920 \\ 27 \% \end{gathered}$ | $\begin{gathered} 539 \\ 16 \% \end{gathered}$ | $\begin{aligned} & 652 \\ & 19 \% \end{aligned}$ | $\begin{aligned} & 159 \\ & 5 \% \end{aligned}$ |
| French Language \% of Total | 263 | 0\% | $\begin{gathered} 25 \\ 10 \% \end{gathered}$ | $\begin{gathered} 58 \\ 22 \% \end{gathered}$ | $\begin{gathered} 69 \\ 26 \% \end{gathered}$ | $\begin{gathered} 64 \\ 24 \% \end{gathered}$ | $\begin{gathered} 47 \\ 18 \% \end{gathered}$ | 271 | 0\% | $\begin{gathered} 13 \\ 5 \% \end{gathered}$ | $\begin{gathered} 39 \\ 14 \% \end{gathered}$ | $\begin{gathered} 85 \\ 31 \% \end{gathered}$ | $\begin{gathered} 81 \\ 30 \% \end{gathered}$ | $\begin{gathered} 53 \\ 20 \% \end{gathered}$ |

## AP: Exam Participation and Performance (Part 2 of 3)

|  | '14-'15 |  |  |  |  |  |  | '15-'16 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \# of Exams | $\begin{aligned} & \text { \% of } \\ & \text { Total } \end{aligned}$ | Score of 1 | Score of 2 | $\begin{gathered} \text { Score of } \\ 3 \end{gathered}$ | Score of 4 | $\begin{gathered} \text { Score of } \\ 5 \end{gathered}$ | \# of Exams | \% of Total | Score of 1 | Score of 2 | $\begin{gathered} \text { Score of } \\ 3 \end{gathered}$ | $\begin{gathered} \text { Score of } \\ 4 \end{gathered}$ | Score of $5$ |
| German Language \% of Total | 134 | 0\% | $\begin{gathered} 2 \\ 1 \% \end{gathered}$ | $\begin{gathered} 21 \\ 16 \% \end{gathered}$ | $\begin{gathered} 46 \\ 34 \% \end{gathered}$ | $\begin{gathered} 45 \\ 34 \% \end{gathered}$ | $\begin{gathered} 20 \\ 15 \% \end{gathered}$ | 128 | 0\% | $\begin{gathered} 14 \\ 11 \% \end{gathered}$ | $\begin{gathered} 17 \\ 13 \% \end{gathered}$ | $\begin{gathered} 35 \\ 27 \% \end{gathered}$ | $\begin{gathered} 39 \\ 30 \% \end{gathered}$ | $\begin{gathered} 23 \\ 18 \% \end{gathered}$ |
| Government \& Politics: Comparative \% of Total | 36 | 0\% | $\begin{gathered} 4 \\ 11 \% \end{gathered}$ | $\begin{gathered} 4 \\ 11 \% \end{gathered}$ | $\begin{gathered} 9 \\ 25 \% \end{gathered}$ | $\begin{gathered} 10 \\ 28 \% \end{gathered}$ | $\begin{gathered} 9 \\ 25 \% \end{gathered}$ | 73 | 0\% | $\begin{gathered} 12 \\ 16 \% \end{gathered}$ | $\begin{gathered} 14 \\ 19 \% \end{gathered}$ | $\begin{gathered} 13 \\ 18 \% \end{gathered}$ | $\begin{gathered} 17 \\ 23 \% \end{gathered}$ | $\begin{gathered} 17 \\ 23 \% \end{gathered}$ |
| Government \& Politics: United States \% of Total | 3,715 | 5\% | $\begin{gathered} 1,063 \\ 29 \% \end{gathered}$ | $\begin{gathered} 1,002 \\ 27 \% \end{gathered}$ | $\begin{gathered} 907 \\ 24 \% \end{gathered}$ | $\begin{aligned} & 483 \\ & 13 \% \end{aligned}$ | $\begin{aligned} & 260 \\ & 7 \% \end{aligned}$ | 3,708 | 5\% | $\begin{gathered} 1,028 \\ 28 \% \end{gathered}$ | $\begin{gathered} 937 \\ 25 \% \end{gathered}$ | $\begin{gathered} 894 \\ 24 \% \end{gathered}$ | $\begin{aligned} & 463 \\ & 12 \% \end{aligned}$ | $\begin{aligned} & 386 \\ & 10 \% \end{aligned}$ |
| History: European \% of Total | 1,409 | 2\% | $\begin{aligned} & 372 \\ & 26 \% \end{aligned}$ | $\begin{aligned} & 162 \\ & 11 \% \end{aligned}$ | $\begin{gathered} 487 \\ 35 \% \end{gathered}$ | $\begin{gathered} 244 \\ 17 \% \end{gathered}$ | $\begin{gathered} 144 \\ 10 \% \end{gathered}$ | 1,516 | 2\% | $\begin{aligned} & 192 \\ & 13 \% \end{aligned}$ | $\begin{gathered} 512 \\ 34 \% \end{gathered}$ | $\begin{gathered} 436 \\ 29 \% \end{gathered}$ | $\begin{gathered} 225 \\ 15 \% \end{gathered}$ | $\begin{gathered} 151 \\ 10 \% \end{gathered}$ |
| History: United States \% of Total | 7,868 | 10\% | $\begin{gathered} 2,507 \\ 32 \% \end{gathered}$ | $\begin{gathered} 2,254 \\ 29 \% \end{gathered}$ | $\begin{gathered} 1,638 \\ 21 \% \end{gathered}$ | $\begin{gathered} 1,038 \\ 13 \% \end{gathered}$ | $\begin{aligned} & 431 \\ & 5 \% \end{aligned}$ | 8,547 | 10\% | $\begin{gathered} 2,530 \\ 30 \% \end{gathered}$ | $\begin{gathered} 2,276 \\ 27 \% \end{gathered}$ | $\begin{gathered} 1,816 \\ 21 \% \end{gathered}$ | $\begin{gathered} 1,217 \\ 14 \% \end{gathered}$ | $\begin{aligned} & 708 \\ & 8 \% \end{aligned}$ |
| History: World \% of Total | 4,458 | 6\% | $\begin{gathered} 690 \\ 15 \% \end{gathered}$ | $\begin{gathered} 1,502 \\ 34 \% \end{gathered}$ | $\begin{gathered} 1,440 \\ 32 \% \end{gathered}$ | $\begin{gathered} 564 \\ 13 \% \end{gathered}$ | $\begin{aligned} & 262 \\ & 6 \% \end{aligned}$ | 4,180 | 5\% | $\begin{gathered} 788 \\ 19 \% \end{gathered}$ | $\begin{gathered} 1,343 \\ 32 \% \end{gathered}$ | $\begin{gathered} 1,238 \\ 30 \% \end{gathered}$ | $\begin{gathered} 579 \\ 14 \% \end{gathered}$ | $\begin{aligned} & 232 \\ & 6 \% \end{aligned}$ |
| Human Geography \% of Total | 1,920 | 2\% | $\begin{gathered} 501 \\ 26 \% \end{gathered}$ | $\begin{aligned} & 348 \\ & 18 \% \end{aligned}$ | $\begin{gathered} 424 \\ 22 \% \end{gathered}$ | $\begin{gathered} 421 \\ 22 \% \end{gathered}$ | $\begin{gathered} 226 \\ 12 \% \end{gathered}$ | 2,145 | 3\% | $\begin{gathered} 549 \\ 26 \% \end{gathered}$ | $\begin{gathered} 420 \\ 20 \% \end{gathered}$ | $\begin{gathered} 450 \\ 21 \% \end{gathered}$ | $\begin{gathered} 472 \\ 22 \% \end{gathered}$ | $\begin{gathered} 254 \\ 12 \% \end{gathered}$ |
| Italian \% of Total | 2 | 0\% | - | - | $\begin{aligned} & - \\ & - \end{aligned}$ | - | - | 3 | 0\% | - | - | $\begin{aligned} & - \\ & - \end{aligned}$ | $\begin{aligned} & - \\ & - \end{aligned}$ | - |
| Japanese Language and Culture \% of Total | 45 | 0\% | $\begin{gathered} 25 \\ 56 \% \end{gathered}$ | $\begin{gathered} 5 \\ 11 \% \end{gathered}$ | $\begin{gathered} 3 \\ 7 \% \end{gathered}$ | $\begin{gathered} 2 \\ 4 \% \end{gathered}$ | $\begin{gathered} 10 \\ 22 \% \end{gathered}$ | 18 | 0\% | $\begin{gathered} 7 \\ 39 \% \end{gathered}$ | $\begin{gathered} 0 \\ 0 \% \end{gathered}$ | $\begin{gathered} 5 \\ 28 \% \end{gathered}$ | $\begin{gathered} 1 \\ 6 \% \end{gathered}$ | $\begin{gathered} 5 \\ 28 \% \end{gathered}$ |
| Latin \% of Total | 102 | 0\% | $\begin{gathered} 7 \\ 7 \% \end{gathered}$ | $\begin{gathered} 26 \\ 25 \% \end{gathered}$ | $\begin{gathered} 32 \\ 31 \% \end{gathered}$ | $\begin{gathered} 27 \\ 26 \% \end{gathered}$ | $\begin{gathered} 10 \\ 10 \% \end{gathered}$ | 79 | 0\% | $\begin{gathered} 2 \\ 3 \% \end{gathered}$ | $\begin{gathered} 23 \\ 29 \% \end{gathered}$ | $\begin{gathered} 35 \\ 44 \% \end{gathered}$ | $\begin{gathered} 16 \\ 20 \% \end{gathered}$ | $\begin{gathered} 3 \\ 4 \% \end{gathered}$ |
| Mathematics: Calculus $A B$ \% of Total | 7,483 | 10\% | $\begin{gathered} 3,051 \\ 41 \% \end{gathered}$ | $\begin{aligned} & 868 \\ & 12 \% \end{aligned}$ | $\begin{gathered} 1,361 \\ 18 \% \end{gathered}$ | $\begin{gathered} 1,071 \\ 14 \% \end{gathered}$ | $\begin{gathered} 1,132 \\ 15 \% \end{gathered}$ | 7,477 | 9\% | $\begin{gathered} 3,038 \\ 41 \% \end{gathered}$ | $\begin{gathered} 821 \\ 11 \% \end{gathered}$ | $\begin{gathered} 1,227 \\ 16 \% \end{gathered}$ | $\begin{gathered} 1,110 \\ 15 \% \end{gathered}$ | $\begin{gathered} 1,281 \\ 17 \% \end{gathered}$ |
| Mathematics: Calculus BC \% of Total | 1,432 | 2\% | $\begin{gathered} 186 \\ 13 \% \end{gathered}$ | $\begin{aligned} & 80 \\ & 6 \% \end{aligned}$ | $\begin{gathered} 283 \\ 20 \% \end{gathered}$ | $\begin{gathered} 222 \\ 16 \% \end{gathered}$ | $\begin{gathered} 661 \\ 46 \% \end{gathered}$ | 1,536 | 2\% | $\begin{aligned} & 191 \\ & 12 \% \end{aligned}$ | $\begin{aligned} & 106 \\ & 7 \% \end{aligned}$ | $\begin{gathered} 263 \\ 17 \% \end{gathered}$ | $\begin{gathered} 216 \\ 14 \% \end{gathered}$ | $\begin{gathered} 760 \\ 49 \% \end{gathered}$ |
| Music: Theory \% of Total | 404 | 1\% | $\begin{gathered} 58 \\ 14 \% \end{gathered}$ | $\begin{gathered} 117 \\ 29 \% \end{gathered}$ | $\begin{gathered} 98 \\ 24 \% \end{gathered}$ | $\begin{gathered} 72 \\ 18 \% \end{gathered}$ | $\begin{gathered} 59 \\ 15 \% \end{gathered}$ | 415 | 1\% | $\begin{gathered} 60 \\ 14 \% \end{gathered}$ | $\begin{gathered} 130 \\ 31 \% \end{gathered}$ | $\begin{gathered} 110 \\ 27 \% \end{gathered}$ | $\begin{gathered} 59 \\ 14 \% \end{gathered}$ | $\begin{gathered} 56 \\ 13 \% \end{gathered}$ |
| Physics 1 \% of Total | 3,276 | 4\% | $\begin{gathered} 1,223 \\ 37 \% \end{gathered}$ | $\begin{gathered} 1,029 \\ 31 \% \end{gathered}$ | $\begin{aligned} & 580 \\ & 18 \% \end{aligned}$ | $\begin{gathered} 326 \\ 10 \% \end{gathered}$ | $\begin{aligned} & 118 \\ & 4 \% \end{aligned}$ | 3,274 | 4\% | $\begin{gathered} 1,204 \\ 37 \% \end{gathered}$ | $\begin{gathered} 969 \\ 30 \% \end{gathered}$ | $\begin{aligned} & 632 \\ & 19 \% \end{aligned}$ | $\begin{gathered} 356 \\ 11 \% \end{gathered}$ | $\begin{aligned} & 113 \\ & 3 \% \end{aligned}$ |
| Physics 2 <br> \% of Total | 383 | 0\% | $\begin{gathered} 51 \\ 13 \% \end{gathered}$ | $\begin{gathered} 168 \\ 44 \% \end{gathered}$ | $\begin{gathered} 111 \\ 29 \% \end{gathered}$ | $\begin{gathered} 36 \\ 9 \% \end{gathered}$ | $\begin{aligned} & 17 \\ & 4 \% \end{aligned}$ | 508 | 1\% | $\begin{gathered} 66 \\ 13 \% \end{gathered}$ | $\begin{gathered} 202 \\ 40 \% \end{gathered}$ | $\begin{gathered} 154 \\ 30 \% \end{gathered}$ | $\begin{gathered} 51 \\ 10 \% \end{gathered}$ | $\begin{gathered} 35 \\ 7 \% \end{gathered}$ |

Note: Scores are reported when there are five or more exams.

## AP: Exam Participation and Performance (Part 3 of 3)

|  | '14-'15 |  |  |  |  |  |  | '15-'16 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \# of Exams | $\begin{aligned} & \text { \% of } \\ & \text { Total } \end{aligned}$ | Score of 1 | Score of 2 | Score of 3 | Score of $4$ | $\begin{gathered} \text { Score of } \\ 5 \end{gathered}$ | \# of Exams | $\begin{aligned} & \text { \% of } \\ & \text { Total } \end{aligned}$ | Score of 1 | $\begin{gathered} \text { Score of } \\ 2 \end{gathered}$ | $\begin{gathered} \text { Score of } \\ 3 \end{gathered}$ | Score of 4 | $\begin{aligned} & \text { Score of } \\ & 5 \end{aligned}$ |
| Physics C: Electricity \& Magnetism \% of Total | 308 | 0\% | $\begin{gathered} 52 \\ 17 \% \end{gathered}$ | $\begin{gathered} 64 \\ 21 \% \end{gathered}$ | $\begin{gathered} 38 \\ 12 \% \end{gathered}$ | $\begin{gathered} 78 \\ 25 \% \end{gathered}$ | $\begin{gathered} 76 \\ 25 \% \end{gathered}$ | 370 | 0\% | $\begin{gathered} 61 \\ 16 \% \end{gathered}$ | $\begin{gathered} 99 \\ 27 \% \end{gathered}$ | $\begin{gathered} 55 \\ 15 \% \end{gathered}$ | $\begin{gathered} 77 \\ 21 \% \end{gathered}$ | $\begin{gathered} 78 \\ 21 \% \end{gathered}$ |
| Physics C: Mechanics \% of Total | 939 | 1\% | $\begin{gathered} 129 \\ 14 \% \end{gathered}$ | $\begin{gathered} 141 \\ 15 \% \end{gathered}$ | $\begin{gathered} 223 \\ 24 \% \end{gathered}$ | $\begin{gathered} 225 \\ 24 \% \end{gathered}$ | $\begin{gathered} 221 \\ 24 \% \end{gathered}$ | 849 | 1\% | $\begin{gathered} 105 \\ 12 \% \end{gathered}$ | $\begin{gathered} 136 \\ 16 \% \end{gathered}$ | $\begin{gathered} 159 \\ 19 \% \end{gathered}$ | $\begin{gathered} 223 \\ 26 \% \end{gathered}$ | $\begin{gathered} 226 \\ 27 \% \end{gathered}$ |
| Psychology <br> \% of Total | 4,630 | 6\% | $\begin{gathered} \text { 1,189 } \\ 26 \% \end{gathered}$ | $\begin{gathered} 705 \\ 15 \% \end{gathered}$ | $\begin{gathered} 1,018 \\ 22 \% \end{gathered}$ | $\begin{gathered} 1,065 \\ 23 \% \end{gathered}$ | $\begin{gathered} 653 \\ 14 \% \end{gathered}$ | 4,833 | 6\% | $\begin{gathered} 1,168 \\ 24 \% \end{gathered}$ | $\begin{gathered} 820 \\ 17 \% \end{gathered}$ | $\begin{gathered} 979 \\ 20 \% \end{gathered}$ | $\begin{gathered} 1,121 \\ 23 \% \end{gathered}$ | $\begin{gathered} 745 \\ 15 \% \end{gathered}$ |
| Spanish Language \% of Total | 1,252 | 2\% | $\begin{gathered} 53 \\ 4 \% \end{gathered}$ | $\begin{gathered} 231 \\ 18 \% \end{gathered}$ | $\begin{gathered} 436 \\ 35 \% \end{gathered}$ | $\begin{gathered} 312 \\ 25 \% \end{gathered}$ | $\begin{gathered} 220 \\ 18 \% \end{gathered}$ | 1,120 | 1\% | $\begin{gathered} 49 \\ 4 \% \end{gathered}$ | $\begin{gathered} 202 \\ 18 \% \end{gathered}$ | $\begin{gathered} 338 \\ 30 \% \end{gathered}$ | $\begin{gathered} 322 \\ 29 \% \end{gathered}$ | $\begin{gathered} 209 \\ 19 \% \end{gathered}$ |
| Spanish Literature and Culture \% of Total | 42 | 0\% | $\begin{gathered} 2 \\ 5 \% \end{gathered}$ | $\begin{gathered} 14 \\ 33 \% \end{gathered}$ | $\begin{gathered} 20 \\ 48 \% \end{gathered}$ | $\begin{gathered} 6 \\ 14 \% \end{gathered}$ | $\begin{gathered} 0 \\ 0 \% \end{gathered}$ | 65 | 0\% | $\begin{gathered} 8 \\ 12 \% \end{gathered}$ | $\begin{gathered} 18 \\ 28 \% \end{gathered}$ | $\begin{gathered} 23 \\ 35 \% \end{gathered}$ | $\begin{gathered} 12 \\ 18 \% \end{gathered}$ | $\begin{gathered} 4 \\ 6 \% \end{gathered}$ |
| Statistics \% of Total | 3,348 | 4\% | $\begin{aligned} & 892 \\ & 27 \% \end{aligned}$ | $\begin{gathered} 656 \\ 20 \% \end{gathered}$ | $\begin{gathered} 822 \\ 25 \% \end{gathered}$ | $\begin{gathered} 564 \\ 17 \% \end{gathered}$ | $\begin{gathered} 414 \\ 12 \% \end{gathered}$ | 3,657 | 4\% | $\begin{gathered} 942 \\ 26 \% \end{gathered}$ | $\begin{gathered} 591 \\ 16 \% \end{gathered}$ | $\begin{gathered} 838 \\ 23 \% \end{gathered}$ | $\begin{gathered} 778 \\ 21 \% \end{gathered}$ | $\begin{aligned} & 508 \\ & 14 \% \end{aligned}$ |
| AP Capstone: Seminar \% of Total | 312 | 0\% | $\begin{gathered} 9 \\ 3 \% \end{gathered}$ | $\begin{gathered} 41 \\ 13 \% \end{gathered}$ | $\begin{gathered} 178 \\ 57 \% \end{gathered}$ | $\begin{gathered} 59 \\ 19 \% \end{gathered}$ | $\begin{gathered} 25 \\ 8 \% \end{gathered}$ | 373 | 0\% | $\begin{gathered} 3 \\ 1 \% \end{gathered}$ | $\begin{gathered} 35 \\ 9 \% \end{gathered}$ | $\begin{gathered} 182 \\ 49 \% \end{gathered}$ | $\begin{gathered} 83 \\ 22 \% \end{gathered}$ | $\begin{gathered} 70 \\ 19 \% \end{gathered}$ |
| AP Capstone: Research* \% of Total | 0 | - | - | 0 - | 0 - | - | - | 229 | 0\% | $\begin{gathered} 0 \\ 0 \% \end{gathered}$ | $\begin{gathered} 57 \\ 25 \% \end{gathered}$ | $\begin{gathered} 92 \\ 40 \% \end{gathered}$ | $\begin{gathered} 53 \\ 23 \% \end{gathered}$ | $\begin{gathered} 27 \\ 12 \% \end{gathered}$ |



AP: Participation by Race/Ethnicity - Students with Scores of 3,4 or 5





## TheDataShows:

- Increases in the number of all demographics of students for those earning a score of 3,4, or 5
- Exams taken have increased and exams scores of 3,4, or 5 have increased every year over the past 5 years
- From 2014 to 2015 , there was a $5.7 \%$ increase in the number of female students taking an exam and a $4.1 \%$ increase in male students.
- Popular subjects (more than 3000 tests) with the highest percentage of qualifying tests:
(1) Psychology (57\%)
(2) English Language \& Composition (53\%)
(3) Biology (55\%)
(4) Statistics (53\%)


## Policy Implications:

Indiana is improving the number of students participating in AP exams and is also striving to keep pace with the qualification rate. If Indiana wishes to become one of the top performing AP states in the nation, measured by the number of graduates qualifying on an exam at some point during their high school career, then Indiana must:
(1) Provide on-going training for current AP math, English, and science teachers.
(2) Recruit and train more quality AP math, English, and science teachers.
(3) Provide more rigorous math, English, and science classes to students before they enter AP courses; and align curriculum for optimal AP course preparation.
(4) Encourage schools to align early high ability programs to AP course prerequisites.

## CURRENT STATE FUNDING

## ADVANCED PLACEMENT PROGRAM FUNDING

For Fiscal Year 2016, the state appropriation was $\$ 3,950,000$. Fiscal Year 2017 increased to $\$ 4,200,000$. This appropriation is to provide funding for students of accredited public and nonpublic schools to take the College Board's Advanced Placement math, English, and science exams and to supplement and federal funds awarded for non-math, science, and English exams for students qualifying for the free and reduced lunch program. Any available funds are prioritized for teacher training and professional development.

## PSAT PROGRAM FUNDING

For Fiscal Years 2016 and 2017, the state appropriation was $\$ 1,800,000$. The appropriation is to provide funding for students of accredited public and nonpublic schools in grade 10 and 11 to take the PSAT/NMSQT exam.

## FEDERAL FUNDING

## ADVANCED PLACEMENT TEST FEE PROGRAM FUNDING

Provides supplemental AP and IB exam fee funding for qualified Free and Reduced Lunch students
The 2016 AP Test Fee Grant Award totaled $\$ 260,000$. This amount covered $\$ 37$ per non-math or science AP exam and $\$ 90$ for IB exams taken by low income students. It did not cover the entire costs of these exams, nor did it cover IB registration costs as it had previously done.
*Under the new Every Student Succeeds Act, the AP Fee Reduction grant has been included in the Title IV Part A Block grants. It will be up to either the state or local education agencies to use this money for AP test reduction.

## TEACHER TRAINING

## In 2016, in addition to the professional development provided to AP TI P-IN educators:

AP One-Day Workshops - Butler University

- 605 teachers attended
- Workshop offered for 24 AP courses

Given the launch of the new SAT Suite of Assessments and all of the changes to our reporting system, College Board focused on ensuring corporations/schools were able access and use the new system in 15-16. How to locate AP Potential was part of these workshops, but these weren't designed to engage in data analysis and instructional planning like the old SOAS workshops.

## PSAT Online Score Report Trainings (AP Potential)

- 333 educators attended
- 20 workshops at locations across the state

AP Mentoring is a teacher-to-teacher support program for teachers of all experience levels offered by the College Board. The College Board's AP Mentoring is the only program of its kind in the nation that specifically recruits, selects and trains mentor teachers who are active AP teachers in their AP subject area to mentor other AP teachers. AP Mentoring is available for teachers of AP English Literature and Composition and AP U.S. History. Mentee teachers meet monthly via video conferencing over a twelve month period to discuss instructional needs in their AP classrooms. Mentee teachers with 0 to 2 years of AP teaching experience are grouped together in order to provide focused support as they build knowledge of the AP Program; likewise, more experienced teachers will be grouped together to share strategies and best practices. Mentees also have exclusive access to sample exemplary lesson plans and instructional activities specifically designed for use in the AP classroom. In addition, mentees receive exclusive access to classroom resources developed by their mentor teachers to support them throughout their mentoring experience.

This will be extended for next year. Funding provides for 56 teachers to participate so we will be able to fund an additional 36 next year.

## AP-TIP

Advanced Placement
Teacher Investment Program
UNIVERSITY OF NOTRE DAME


## AP-TIP IN Program Update

Karen M. Morris
AP-TIP IN Program Director
November 8, 2016

Since its inception in 2012, the AP-TIP IN program has significantly impacted students and teachers in 30 Indiana public high schools. After the completion of the fourth program year, the results remain outstanding for the 21 Cohort 2 and 3 schools listed here:

| Cohort 2 Schools |  | Cohort 3 Schools |  |
| :--- | :--- | :--- | :--- |
| Ben Davis | Lawrence Central | Arsenal Tech | Edgewood |
| Crawford County | Lawrence North | Broad Ripple | Lebanon |
| D.E. Gavit | Richmond | G.R. Clark | Morton |
| Hammond | Westfield | Crispus Attucks | New Prairie |
| Kokomo | Whiteland | Eastern Greene | Whitko |
| Lake Central |  |  |  |

- For the 2015-16 school year, enrollment increases in AP math, science and English (MSE) courses at the Cohort 2 and 3 schools continued to increase: nearly $96 \%$ increase compared to the baseline enrollments in 2012 and nearly 19\% compared to the 2014-15 enrollments. Enrollment increases from last year outpaced the state by $11.5 \%$. Cohort 2 and 3 students represented $16.5 \%$ of all Indiana AP MSE participation in the 2015-16 school year, although these schools represented only 6\% of all Indiana public high schools that offer AP MSE courses.

- Compared to the 2012 baseline, success in AP MSE courses continues to soar. In the 2015-16 school year, the 21 AP-TIP IN Cohort 2 and 3 schools increased qualifying scores by $76 \%$. Additionally, the number of qualifying scores received by students at AP-TIP IN schools represented nearly $13 \%$ of all of the AP MSE scores earned by Indiana students at public schools in 2016.

- At the end of Year 4, AP-TIP IN has worked with more than 280 AP MSE teachers and 17,000 students at the 30 AP-TIP IN high schools. These students have taken nearly 25,400 AP math, science, and English courses and earned 10,620 qualifying scores (a $42 \%$ success rate!). This translates to approximately $\$ 8,000,000^{*}$ in college tuition saved for Hoosier families and by the state as students who earn qualifying scores are more likely to have a lower remediation rate and graduate on-time (*based on the average tuition cost for one-year of college at an Indiana public institute of higher education if a student enrolls in 30 credits; maintaining on-time graduation)!

While the results clearly demonstrate the efficacy of the AP-TIP IN program, the changing climate of education funding in Indiana has created obstacles to continue supporting current schools and expanding to new ones. The Investing in Innovation (i3) fund grant that AP-TIP IN used to begin this work with the National Math and Science Initiative (NMSI) in 2012 ends December 2016. In order to sustain and expand the program, grant proposals to the Indiana Commission for Higher Education (ICHE) were submitted in October 2015 and funded for the final year of professional development and support for the 10 Cohort 3 schools (2016-17) and inaugurated the AP-TIP IN program at nine Cohort 4 schools with teacher professional development ONLY.

AP-TIP IN has applied for a new one-year grant from ICHE in order to continue the AP-TIP IN Program at Cohort 4 schools for a second year and add a new Cohort 5 group of eight schools. These funds, however, do not fully support all aspects of the AP-TIP IN program; only teacher professional development and support. Unless significant funding is provided or granted to keep this outstanding program with great impact and results operating, AP-TIP IN will shutter its program after the 2016-17 school year.


[^0]:    ${ }^{11}$ College Outcomes Comparisons by AP and Non-AP High School Experiences. Hargrove, L., Godin, D., \&Dodd, B. (2008) New York: The College Board

