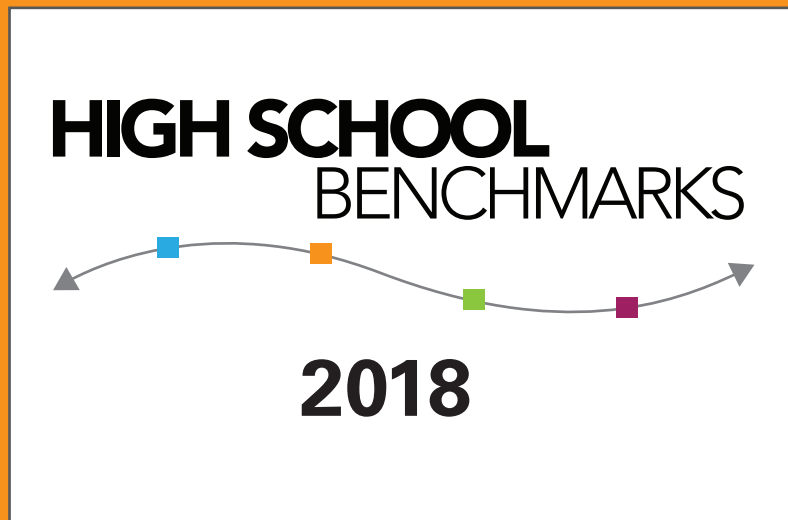


NATIONAL STUDENT CLEARINGHOUSE<sup>®</sup>  
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## National College Progression Rates



# HIGH SCHOOL BENCHMARKS



## High School Benchmarks 2018: National College Progression Rates

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### TABLE OF CONTENTS

<b>Introduction</b> .....	3
For the purpose of this report .....	3
Important note on the data .....	5
<b>Section 1: National Results</b> .....	6
Enrollment.....	6
Persistence .....	7
Completion.....	8
Enrollment and Completion Rates by School Minority and Income Levels.....	9
Top Categories of Majors at Immediate College Enrollment and at Completion .....	10
STEM Completion.....	11
<b>Section 2: Results by High School Type</b> (for Use by Individual High Schools) .....	13
Guidance on How to Interpret the Outcomes in this Section .....	13
Results Tables & Figures .....	13
<b>References</b> .....	14
<b>Appendix A: Methodological Notes</b> .....	15
Definitions of Public, Non-Charter High School Categories.....	17
Definitions of Outcomes.....	20
STEM College Completions .....	20
<b>Appendix B: Postsecondary Coverage Tables</b> .....	21
<b>Appendix C:</b> .....	21

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# INTRODUCTION

This sixth annual High School Benchmarks Report provides the most updated data on high school graduates' college access, persistence, and completion outcomes. The report was designed with several features particularly tailored to secondary practitioners and policymakers. First, results presented in this report were based on the most up-to-date data on high school graduates' enrollment in a college or university, persistence from first to second year, and eventual completion of a postsecondary degree. As a result, these statistics provide the most relevant benchmarks that secondary practitioners can use to evaluate and monitor progress in assisting students to make the transition from high school to college. Second, these outcomes were disaggregated by several high school characteristics, which include: income level, minority enrollment, and locale. This was done to ensure that the postsecondary outcomes provided can be relevant to the specific needs and characteristics of the different types of high schools. Finally, in addition to providing the most recent benchmarking figures for high schools, the enrollment, persistence, and completion data are more complete than other data sources because it covers all postsecondary enrollments. Specifically, National Student Clearinghouse data captures all patterns of enrollment and completion, regardless of which postsecondary institution that students attend (e.g., out of state, private, public, or for-profit institutions) and regardless of transfers.

Immediate college enrollment rates of high school graduates at the national level are available through the Condition of Education published by NCES annually (McFarland et al., 2018). Thousands of high schools and districts also have access to timely reports on the college access, persistence, and completion rates of their own graduates through the StudentTracker® service of the National Student Clearinghouse. This report enables those schools to compare their students' outcomes to those of other schools with similar characteristics and that also use the StudentTracker service. Using the results reported here, high schools and districts can place their own StudentTracker results into context with the college access, persistence, and completion rates for schools with similar student populations in similar locales across the country.

The report provides college enrollment, persistence, and completion outcomes for public non-charter; public charter; and private high school graduates.

It is important to note that the sample sizes for charter and private high schools are smaller than those of the public non-charter schools. Therefore, the results for charter and private schools are subject to higher variance and uncertainty than the results for public non-charter schools. For this reason, we do not recommend comparing these categories or using the results to draw conclusions about the differences between the school types.

For students of public non-charter high schools, all outcomes are reported in nine categories. These categories, which are defined by the aggregate characteristics of each high school, are as follows:

- Low income schools
  - High poverty
- Higher income schools
  - Low poverty
- Low minority schools
- High minority schools
- Urban schools
- Suburban schools
- Rural schools

## **For the purpose of this report:**

- Low income schools are defined as schools where at least 50 percent of the students are eligible for a free or reduced-price lunch.
- High minority schools are defined as schools where at least 40 percent of the students are black or Hispanic.
- Locale is defined by the NCES urban-centric locale code. Schools with a code from 11 to 13 are defined as urban. Schools with a code from 21 to 23 are defined as suburban. And those with a code from 31 to 43, covering both town and rural areas, are defined as rural.

For schools in low income and higher income categories, we also have outcomes for graduates from a subset of low income schools defined as high-poverty schools (schools where at least 75 percent of the student population are eligible for free or reduced price lunch) and a subset of higher income schools as low-poverty (schools where less than 25 percent of the student population are eligible for

free or reduced price lunch). Selected outcomes for high-and-low poverty schools are highlighted in the main part of the report. All outcomes can be found in Appendix C.

A complete explanation of definitions can be found in Appendix A.

The tables and figures present:

- Total college-going rate, including:
  - Enrollment in the first fall after high school graduation
  - Enrollment at any time in the first year after high school graduation
  - Enrollment at any time in the first two years after high school graduation
- Persistence from first to second year of college. This is the number of students who remained enrolled for their second year of college as a percent of the number of students who enrolled in during the first year after high school graduation. It includes students who may have transferred or re-enrolled at a different institution from the one where they started.
- Six-year college completion rates, both overall and in STEM (Science, Technology, Engineering and Mathematics) fields in particular, expressed as the percentage of high school graduates who complete a degree at any college within six years of high school graduation.
- Top five categories of majors at immediate college enrollment and at completion by high school type.

College enrollment rates are calculated for the most recent two graduating classes for which data are currently available. Thus, the first fall outcome has been calculated for the classes of 2017 and 2016, the first year outcome calculated for the classes of 2016 and 2015, and the first two years' outcomes calculated for the classes of 2015 and 2014. The persistence rates were calculated for the high school graduating class of 2015. The six-year college completion rates were calculated for the high school graduating class of 2011. Results are also broken down by the type of college attended: public and private institutions, two- and four-year institutions, as well as in-state and out-of-state institutions.

## Important Note on the Data

The data for this report were drawn from a voluntary sample made up of all high schools participating in the StudentTracker for High Schools service (STHS) administered by the National Student Clearinghouse (The Clearinghouse). High schools participating in this service pay a small annual fee (typically \$425) to receive an extensive set of analytic data reports, three times per year, detailing the postsecondary access and success outcomes for up to eight cohorts of their graduating classes.

This is not a nationally representative sample of schools or of high school graduates. Compared to all U.S. high schools, participating STHS schools have greater representation among schools with more minority enrollments and more urban locales. See Table 1 for a breakdown of the current sample in comparison to the national population.

Table 1 describes the distribution of enrolled high school students in the class of 2017 and 2011 in comparison to national numbers derived from NCES by the different school characteristics. As the table demonstrates, the sample used in this report underrepresents rural enrollments and over-represents urban enrollments. The data also slightly over-represent high minority enrollments. In terms of the distribution across higher and low income schools, however, the data coverage from this report is similar to the national data.

This is a descriptive study. Causal inferences should not be made based on these results. The data on which this report is based do not comprise a nationally representative sample of schools or of high school graduates as described above. Yet, it is a large and broad sample, covering over one million students per year, a total of about six million students from public and private high schools for the five high school graduating classes, or about 40 percent of all U.S. high school graduates in each year. It includes data from all 50 states and the majority of the 100 largest districts in the U.S (for more detailed information about the sample, see Appendix A). In addition to providing reasonable benchmarks for each category of schools and districts using StudentTracker reports, we believe it also significantly contributes to discussions among practitioners and policymakers at the school, district, state, and national levels about equitable access to and completion in postsecondary education.

The data on college enrollments for this report, and for the STHS reports that the participating high schools receive, are drawn from the National Student Clearinghouse's unique, longitudinal data that cover 97 percent of enrollments at US colleges and universities. The National Student Clearinghouse is the nation's trusted source for education verification and student educational outcomes research.

**Table 1. Comparison of Samples in High School Benchmarks Report with the National High School Population\***

School Characteristics	Enrolled Students (HS Class of 2017)			Enrolled Students (HS Class of 2011)		
	NSC	National	NSC - National	NSC	National	NSC - National
	N = 1,190,876	N = 3,141,434		N = 1,350,511	N = 3,124,698	
Low Income Schools	39.98%	38.72%	1.26%	31.44%	32.33%	-0.89%
Higher Income Schools	60.02%	61.28%	-1.26%	68.56%	67.67%	0.89%
High Minority Schools	45.55%	37.76%	7.80%	39.24%	33.93%	5.31%
Low Minority Schools	54.45%	62.24%	-7.80%	60.76%	66.07%	-5.31%
Urban Schools	36.74%	26.86%	9.88%	35.25%	26.14%	9.11%
Suburban Schools	44.12%	41.31%	2.81%	39.15%	35.28%	3.87%
Rural Schools	19.14%	31.82%	-12.68%	25.60%	38.58%	-12.98%
High Poverty Schools	14.99%	13.15%	1.84%	9.16%	8.37%	0.79%
Low Poverty Schools	27.18%	24.03%	3.16%	34.33%	30.43%	3.91%

\* National numbers were obtained from the National Center for Education Statistics, Elementary and Secondary Information System.

## SECTION 1: NATIONAL RESULTS

This section below describes the results on one measure of college attendance (enrollment) and two measures of college success (persistence and graduation) for high schools that serve different student populations.

### Enrollment

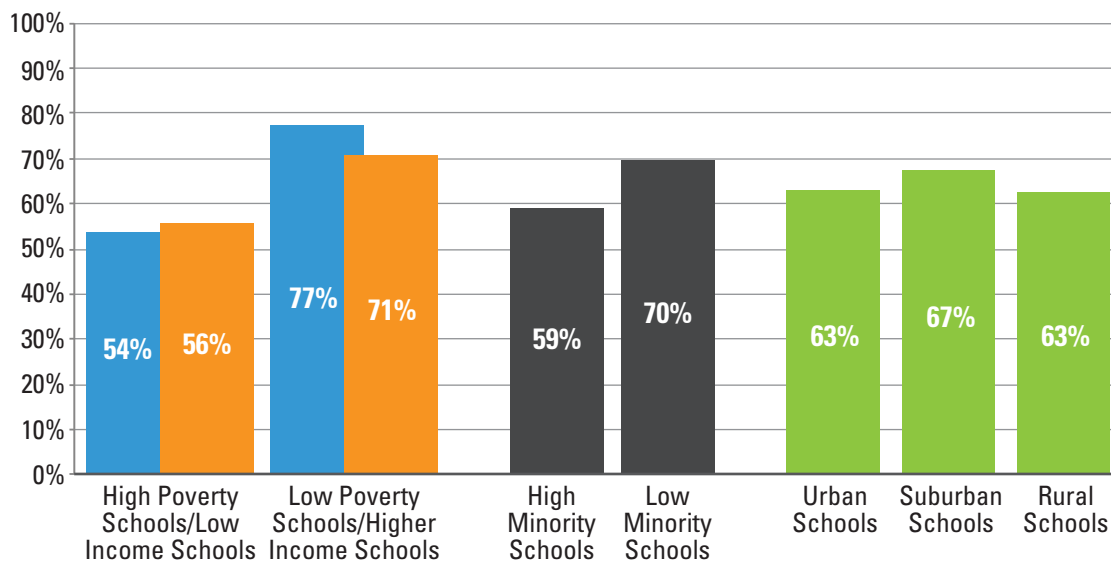
Immediate college enrollment is one of the many important measures that high schools use to assess their impact on student academic success. Figure A shows the rates of immediate college enrollment in the first fall after high school graduation for the class of 2017 by different school characteristics. Figure A shows the rates of immediate college enrollment in the first fall after high school graduation for the class of 2017 by different school characteristics. Income was the strongest correlate with immediate college enrollment. Students from higher income schools were more likely to enroll immediately than students from lower income schools (71 percent and 56 percent, respectively). The gap became even larger when we examined this outcome for graduates of high-poverty schools (where at least 75 percent of the student population was eligible for a free or reduced-price lunch, or FRPL) and low-poverty schools (where less than 25 percent of their student population was eligible for FRPL). A 23

percentage point difference exists between high- and low-poverty schools (54 percent and 77 percent, respectively).

The school minority level was also a strong correlate. Students from low minority high schools were more likely to enroll immediately than those from high schools with higher minority populations (70 percent and 59 percent, respectively). Location was not as strongly correlated, but still demonstrated some relationship with immediate college enrollment. Students from suburban schools (67 percent) were more likely to immediately enroll than those from urban (63 percent) or rural (63 percent) schools.

These patterns are consistent for multiple graduating classes (2015 and 2016) and when the data are expanded to include students who delay their enrollment until the spring and summer terms (enrollment in the first year) or the following year (enrollment in the first two years) (see Appendix C, Tables 2-5). Across all groups, enrollment rates increased markedly when we counted all enrollments in the first two years after graduation, compared to the first fall enrollments (Appendix C, Tables 3 and 4). Students attending two-year institutions drove most of the increases, which is not surprising as two-year institutions generally allow more flexibility in start times.

**Figure A. College Enrollment Rates in the First Fall after High School Graduation, Class of 2017, Public Non-Charter Schools**



*This figure is based on data shown in Appendix C, Table 1*

Enrollments at out-of-state institutions were higher for students from higher income and low minority high schools. Seventeen percent of the college-going graduates from higher income schools enrolled at out-of-state institutions, compared to just six percent of those from

low income high schools. Seventeen percent of graduates from low minority high schools enrolled in an out-of-state institution, compared to just 7 percent of graduates from high minority high schools (see Appendix C, Table 1).

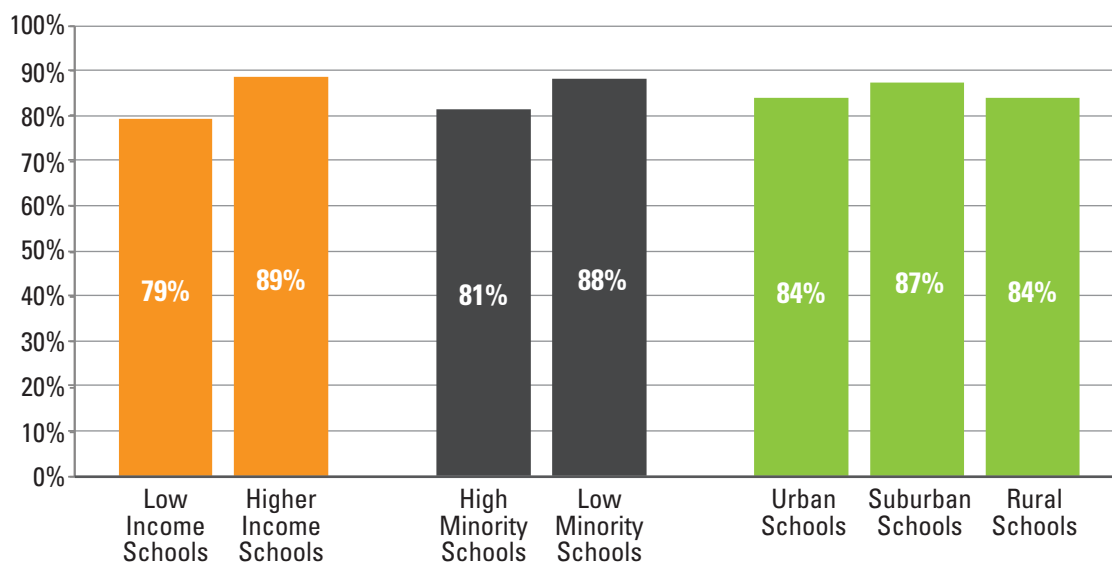
## Persistence

Figure B presents persistence rates from first to second year of college, disaggregated by high school characteristics, for the high school graduating class of 2015. Persistence rate is the percentage of students who returned to college (anywhere) at any time in the second year out of all students from the high school graduating class who enrolled at any time in the first year. Persistence rates for students from all types of high schools presented in Figure B range from 79 to 89 percent. As with enrollment, the percentage of low-income students in a high school was the strongest correlate with persistence. Eighty-nine percent of college-bound students from higher income high schools remained enrolled for their second year, compared to 79 percent from low income high schools. The percentage of minority students in a school

was also a strong correlate. Students from low minority high schools had higher rates of persistence (88 percent) than those from high minority high schools (81 percent). High school location was not as strongly correlated with persistence: Students from suburban high schools (87 percent) were more likely to return for their second year of college than those from rural (84 percent) and urban (84 percent) high schools.

Regardless of high school type, persistence rates among students who enrolled in private colleges and universities were higher than those in public institutions. Persistence rates for all students were also higher in four-year institutions than in two-year institutions and at out-of-state institutions versus in-state institutions (see Appendix C, Table 7).

**Figure B. Persistence Rates from First to Second Year of College, Class of 2015, Public Non-Charter Schools**



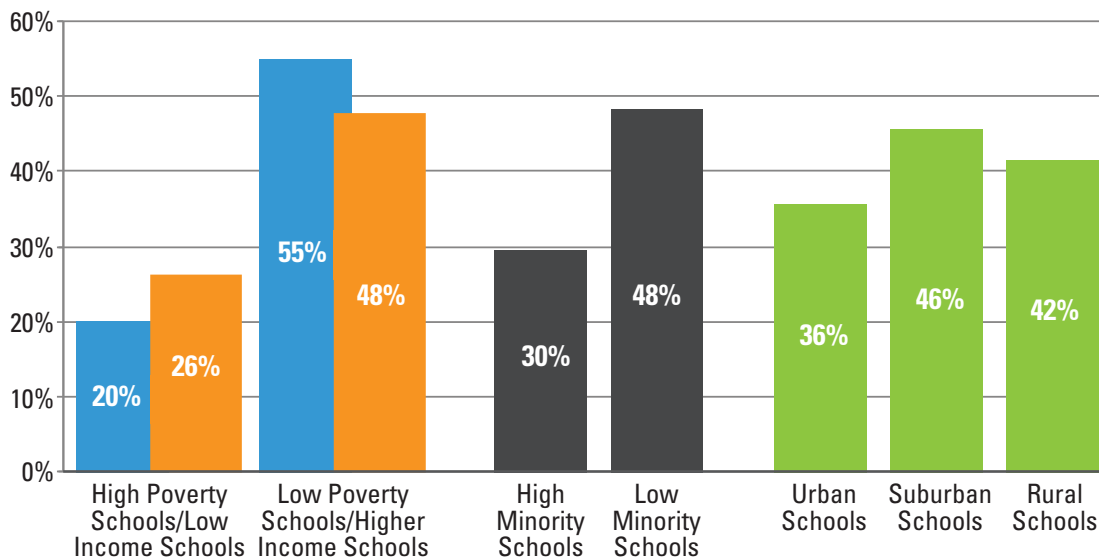
*This figure is based on data shown in Appendix C, Table 7*

## Completion

The differences among students from different types of high schools become most pronounced in the rates of college completion. Figure C presents the rates of college completion as a percentage of all students in the high school graduating class, not just those who enrolled in college. Again, income is the strongest correlate. Forty-eight percent of all students from higher income high schools in the class of 2011 completed a college degree within six years of their graduation, compared to 26 percent of students from low income schools. As it was the case in the immediate college enrollment rates, the achievement gap is even larger among graduates of high- and low-poverty schools. Only 20 percent of graduates from high-poverty high schools graduated college within six years of finishing high school, compared to 55 percent of low poverty school graduates.

The relationship between college completion rates and the minority level of the school was equally strong. Forty-eight percent of students from low minority high schools completed a college degree within six years, compared to only 30 percent from high minority schools. Students from urban high schools also lagged behind: 36 percent of students from urban schools completed a degree within six years of graduation, compared to 42 percent from rural schools and 46 percent from suburban schools.

**Figure C. College Completion Rates Six Years after High School Graduation, Class of 2011, Public Non-Charter Schools**



*This figure is based on data shown in Appendix C, Table 8*

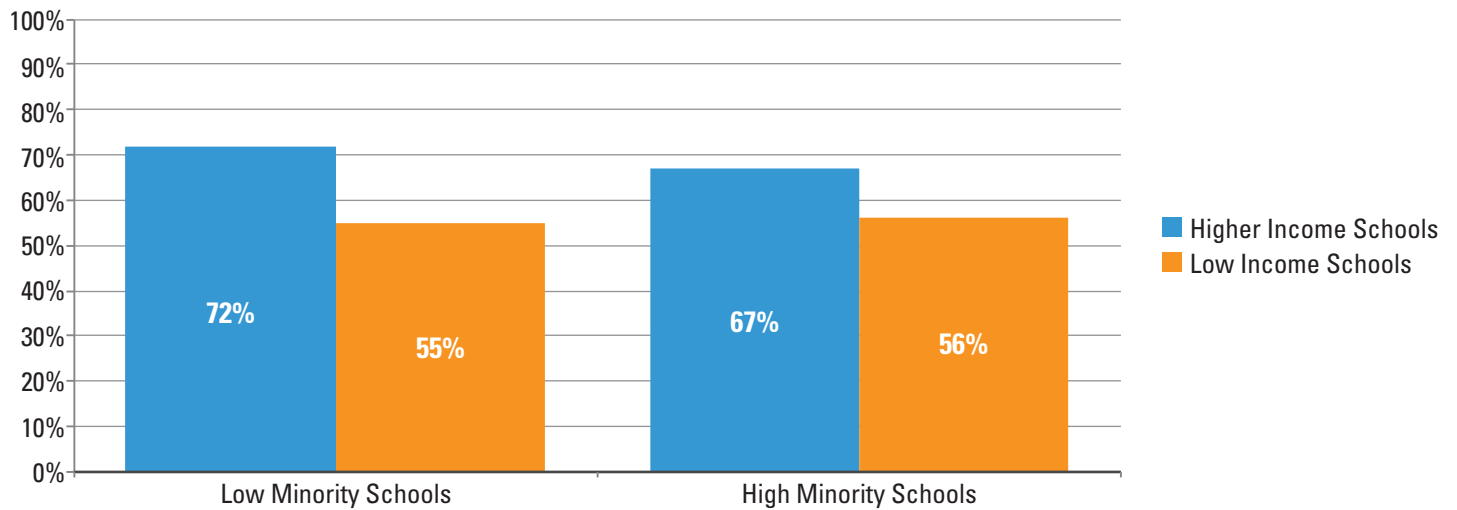


## Enrollment and Completion Rates by School Minority and Income Levels

Figures D and E show postsecondary enrollment and completion rates by school minority and income levels combined. The results show that graduates from low minority and low income high schools had the lowest rate

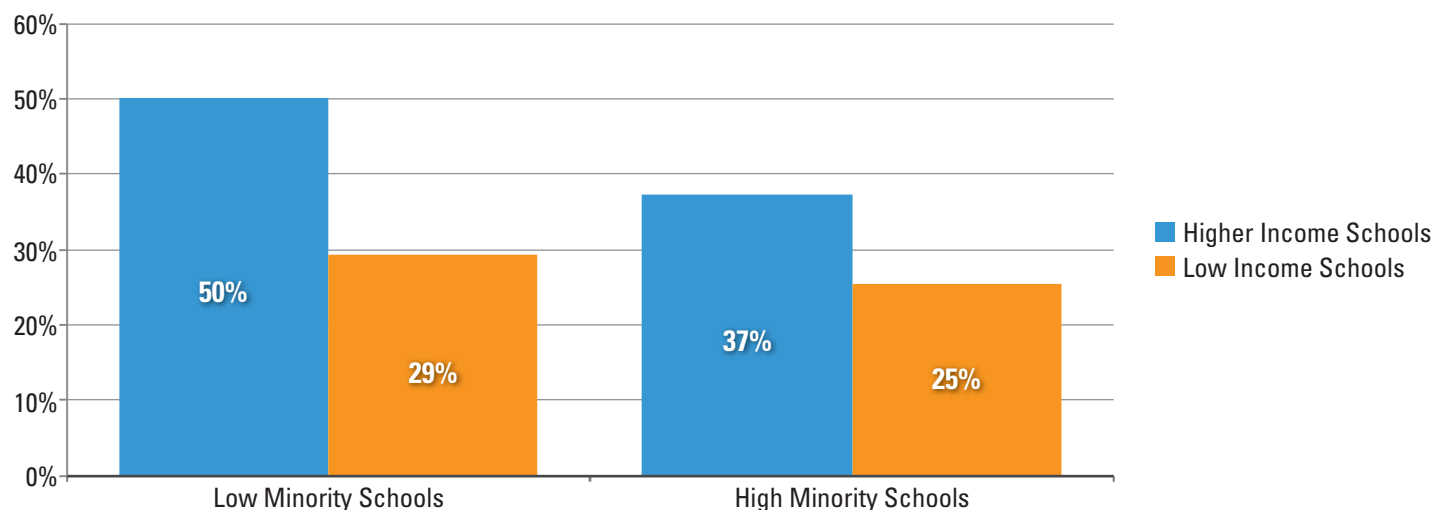
of immediate college enrollment (55 percent), a gap of 17 percentage points from the highest rate (72 percent), observed for students from low minority, higher income high schools. Further, the outcome differences between higher and low income levels, within each minority level, were substantially larger than the outcome differences between high and low minority levels, within income. For

**Figure D. College Enrollment Rates in the First Fall after High School Graduation, Class of 2016, Public Non-Charter Schools, by Minority and Income Levels**



This figure is based on data shown in Appendix C, Table 11

**Figure E. College Completion Rates Six Years after High School Graduation, Class of 2010, Public Non-Charter Schools, by Minority and Income Levels**



This figure is based on data shown in Appendix C, Table 12

example, in Figure D, the difference in enrollment rate by income levels while keeping the minority status unchanged (e.g., within low minority schools, 72 percent enrollment rate for higher income schools versus 55 percent for low income schools) is substantially larger than the difference in enrollment rate by minority levels while keeping the income level constant (e.g., within higher income schools, low minority schools' 72 percent enrollment rate versus high minority schools' 67 percent enrollment rate). In terms of six-year college completion rates, graduates from high minority and low income high schools had the lowest rate (25 percent), a gap of 25 percentage points from the highest rate (50 percent), observed for students from low minority, higher income high schools (Figure E).

### **Top Categories of Majors at Immediate College Enrollment and at Completion**

In these analyses, we examined the patterns of majors at immediate college enrollment and at completion for those who enrolled in or completed a degree from two year or four year schools separately. The results of these analyses are presented in Appendix C. It is important to note that the high school graduating classes used to compare majors at immediate college enrollment versus majors at completion were not the same. Specifically, the high school class of 2017 was used to examine majors at enrollment whereas the high school class of 2011 was used to examine majors at completion.

When examining the most common categories of majors for graduates of low income and higher income high schools, the results showed that overall, there were only small changes in the most common types of majors declared at first enrollment in two-year institutions and the most common types of majors students graduated with from two-year institutions. The most common majors at both first enrollment and completion were in the categories of liberal arts and sciences, general studies and humanities followed by categories of health professions, and business.

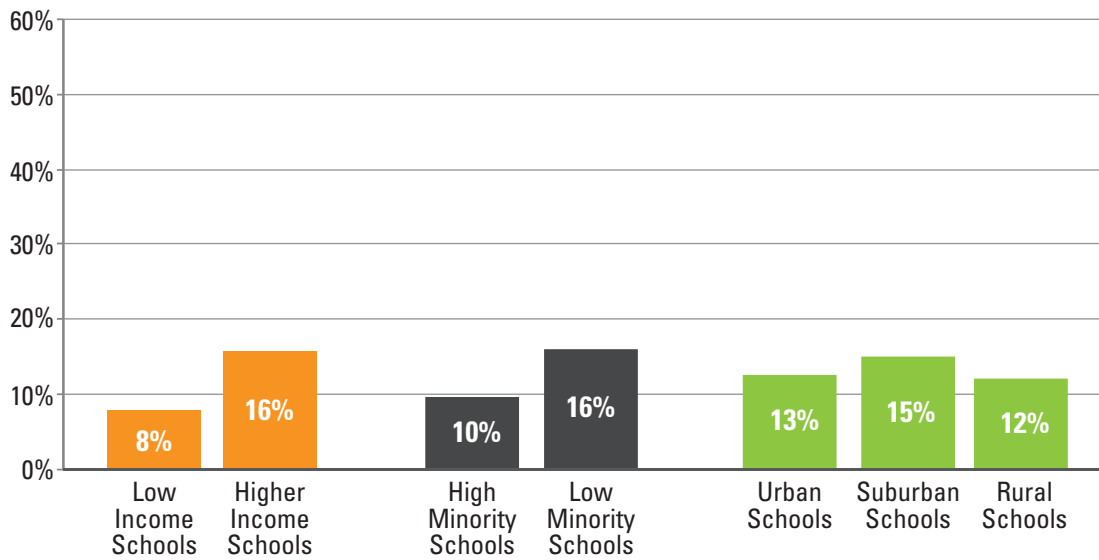
For the four-year sector, the results showed that the most common majors declared at initial college enrollment, regardless of whether the student graduated from higher income or low income high schools, was in the liberal arts and sciences, general studies and humanities category. The most common majors at completion, however, was in the business, management, marketing, and related support category. In fact, liberal arts and sciences was not among the top five categories of majors for completions. The results also revealed that during enrollment, engineering was one of the top five majors for graduates of both higher income and low income high schools. However, at completion, only graduates from higher income schools had engineering as one of their top five most common majors.

## STEM Completion

Figure F presents the rates at which graduates from different types of high schools in the Class of 2011 completed a STEM degree within six years of high school

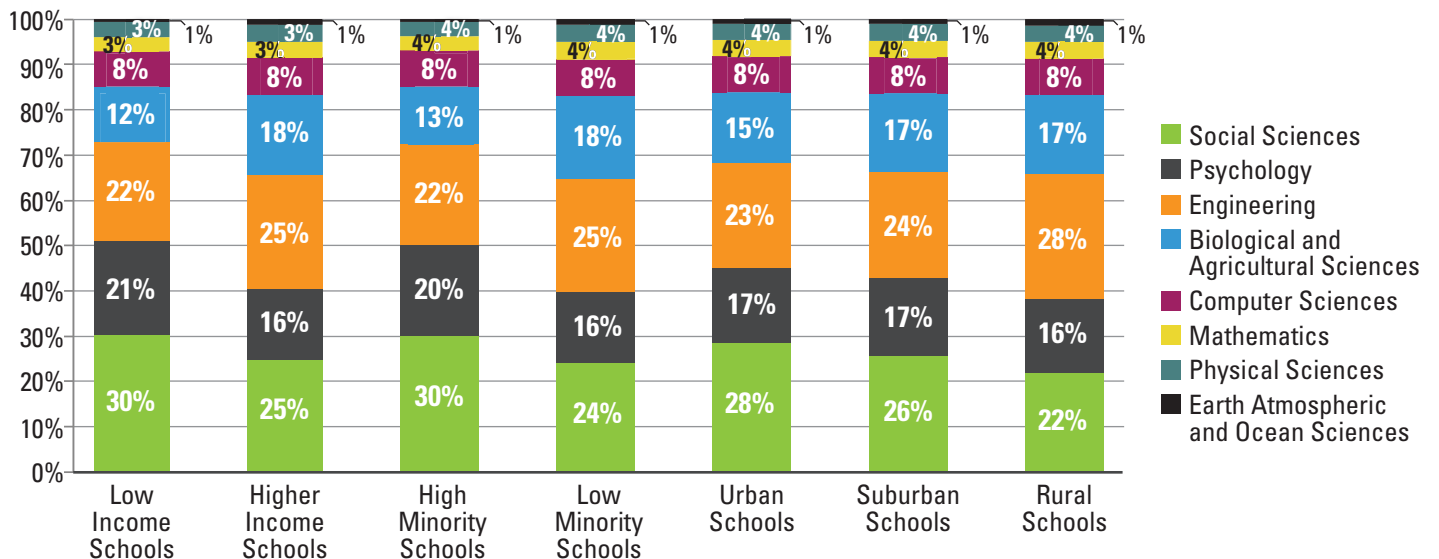
graduation. The percentages of both minority and low-income students in a school were strongly associated with STEM degree completion. Sixteen percent of students from higher income schools, but only eight percent of students from low income schools, completed STEM

**Figure F. College Completion Rates Six Years after High School Graduation, STEM Field of Study, Class of 2011, Public Non-Charter Schools**



This figure is based on data shown in Appendix C, Table 9

**Figure G. Distribution of Fields of Study among STEM Completers, Class of 2011, Public Non-Charter Schools**



This figure is based on data shown in Appendix C, Table 10

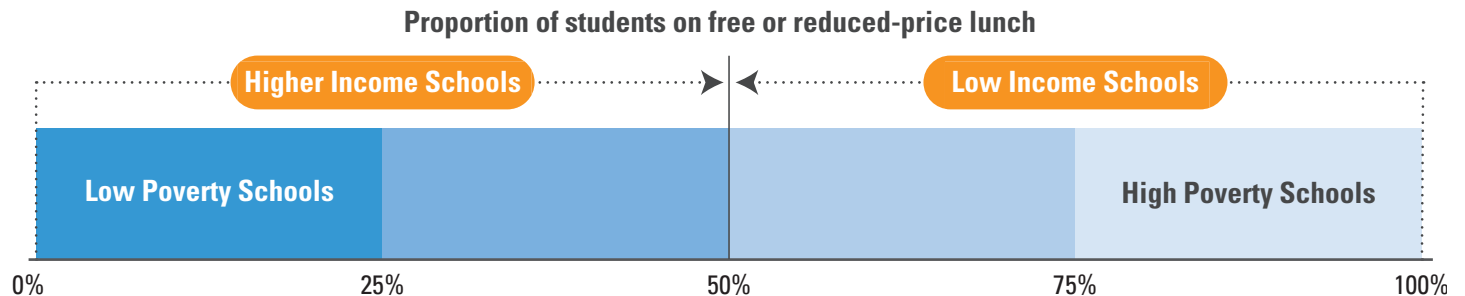
degrees within six years of high school graduation. Similarly, 16 percent of students from low minority high schools completed a STEM degree within six years, compared to 10 percent of students from high minority schools. The relationship between high school location and STEM degree completion was less pronounced. Fifteen percent of students from suburban high schools completed STEM degrees, compared to 12 percent of students from rural and 13 percent from urban high schools.

Figure F presents the number students attaining degrees as a percentage of the number that graduated high school. The definition of STEM used in this analysis is based on a listing of six-digit CIP codes used by the National Science Foundation and includes social sciences and psychology (for a complete list, see Appendix A).

Figure G shows STEM degree completion by field of study and reveals further patterns of disparities among students from different types of high schools, within the group of STEM completers. The majority of STEM degrees for students from both low income (51 percent) and high minority (50 percent) high schools are awarded in either psychology or the social sciences, compared to 41 percent for those from higher income and 40 percent for those from low minority schools. Students from higher income and low minority schools who completed STEM degrees were more likely to do so in physical sciences, mathematics, engineering, and biological and agricultural sciences than students from low income and high minority schools.

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## SECTION 2: RESULTS BY HIGH SCHOOL TYPE (FOR USE BY INDIVIDUAL HIGH SCHOOLS)



### Guidance on How to Interpret the Outcomes in this Section

This section provides detailed results for schools in low income and higher income categories as well as in high poverty and low poverty categories. Section 2 is intended for use by individual high schools as benchmarks against which to compare their own results.

Outcomes are provided in two different ways: student-weighted totals and school percentile distributions.

Tables with student-weighted totals are designed to enable individual schools and districts to compare their StudentTracker results directly to the national benchmarks. Totals are calculated by computing the mean among all

schools within the category, weighted by the size of each school's graduating class. By placing their own results into the context of these aggregate totals, practitioners can better understand the meaning of their students' college access and persistence outcomes.

Tables with school percentile distributions are designed to enable individual schools and districts to identify the approximate percentile rank of their students' college-going rate. These distributions are calculated by ranking schools on outcome without considering school size or number of graduates. Thus, if a school's college-going rate is the same as the rate at the 75th percentile, the school is said to have a college-going rate equal to or higher than that of 75 percent of all StudentTracker schools in that category.

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### Results Tables & Figures

- Public Non-Charter High Schools  
[https://nscresearchcenter.org/wp-content/uploads/HSBR2018\\_PUBLIC\\_NONCHARTER\\_SCHOOLS-7-groups.xlsx](https://nscresearchcenter.org/wp-content/uploads/HSBR2018_PUBLIC_NONCHARTER_SCHOOLS-7-groups.xlsx)
  - Public Non-Charter High Schools by Poverty Level  
[https://nscresearchcenter.org/wp-content/uploads/HSBR2018\\_PUBLIC\\_NONCHARTER\\_SCHOOLS\\_BY\\_POVERTY-2-groups.xlsx](https://nscresearchcenter.org/wp-content/uploads/HSBR2018_PUBLIC_NONCHARTER_SCHOOLS_BY_POVERTY-2-groups.xlsx)
- Public Charter High Schools  
[https://nscresearchcenter.org/wp-content/uploads/HSBR2018\\_PUBLIC\\_CHARTER\\_SCHOOLS.xlsx](https://nscresearchcenter.org/wp-content/uploads/HSBR2018_PUBLIC_CHARTER_SCHOOLS.xlsx)
- Private High Schools  
[https://nscresearchcenter.org/wp-content/uploads/HSBR2018\\_PRIVATE\\_SCHOOLS.xlsx](https://nscresearchcenter.org/wp-content/uploads/HSBR2018_PRIVATE_SCHOOLS.xlsx)

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## APPENDIX A: METHODOLOGICAL NOTES

This report contains college enrollment, persistence and completion outcomes of high school graduating students. The results presented in the report center on the following outcomes:

- 1) College enrollment in the
  - i) first fall after high school graduation;
  - ii) first year after high school graduation; and
  - iii) first two years after high school graduation
- 2) Persistence from the first to the second year of college.
- 3) College completion within six years after high school graduation.

The outcomes are presented by type of college attended, including public and private institutions, two-year and four-year institutions, and in-state and out-of-state institutions. These characteristics are defined by IPEDS Institutional Characteristics data as of 2015-16. In-state designations are defined relative to the state in which the high school is located, not the residency of individual students.

The high school dataset used for this report is based on a voluntary sample and is not a nationally representative sample of schools or of high school graduates. High school diploma data are submitted to the National Student Clearinghouse (the Clearinghouse) by schools and districts that participate in the StudentTracker for High Schools (STHS) service. High schools participating in this service pay a small fee (typically \$425) to receive a packet of reports with postsecondary access and success outcomes for their graduating classes. In general, the participating schools tend to have greater representation among schools with lower income, higher minority enrollments, and urban locales.

This report is based on the data submitted to the Clearinghouse on graduating classes of 2011, 2014, 2015, 2016, and 2017. Table A1 below shows the number of participating high schools and high school graduates included in this report compared to the total number of US high schools and high school graduates. All types of high schools, including both public and private schools, participate in the Clearinghouse STHS service.

**Table A1. Number of public, non-charter high schools and public, non-charter high school graduates included in the report**

<b>Academic year<sup>1</sup></b>	<b>Number of participating high schools</b>	<b>Percent of all US public high schools<sup>2</sup></b>	<b>Percent of US grade 12 enrollment represented<sup>3</sup></b>	<b>Total N (Number of graduates in participating high schools)</b>
2010-2011	5,482	33%	43%	1,243,519
2013-2014	5,893	35%	45%	1,303,525
2014-2015	5,783	34%	44%	1,272,080
2015-2016	5,773	34%	44%	1,284,302
2016-2017	4,873	29%	38%	1,112,494

1 Academic year is defined as the period between September 1-August 31.

2 The total number of schools used in the denominator of this calculation was obtained from NCES' Elementary and Secondary Information System (ELSi). The public school information is available from the Common Core of Data through 2015-16. The number of public, non-charter schools for 2016-17 is an estimate, equal to the number from 2015-16.

3 The numbers used in both the denominator and numerator of this calculation were obtained from NCES' Elementary and Secondary Information System (ELSi). Grade 12 enrollment information is available from the Common Core of Data through 2015-16. The numbers for 2016-17 are estimates, equal to the numbers from 2015-16.

**Table A2. Number of public, charter high schools and public, charter high school graduates included in the report**

<b>Academic year<sup>1</sup></b>	<b>Number of participating high schools</b>	<b>Percent of all US public high schools<sup>2</sup></b>	<b>Percent of US grade 12 enrollment represented<sup>3</sup></b>	<b>Total N (Number of graduates in participating high schools)</b>
2010-2011	361	24%	29%	26,444
2013-2014	493	25%	35%	41,968
2014-2015	496	24%	36%	43,834
2015-2016	487	23%	32%	45,597
2016-2017	428	21%	26%	36,343

1 Academic year is defined as the period between September 1-August 31.

2 The total number of schools used in the denominator of this calculation was obtained from NCES' Elementary and Secondary Information System (ELSi). The public school information is available from the Common Core of Data through 2015-16. The number of public, charter schools for 2016-17 is an estimate, equal to the number from 2015-16.

3 The numbers used in both the denominator and numerator of this calculation were obtained from NCES' Elementary and Secondary Information System (ELSi). Grade 12 enrollment information is available from the Common Core of Data through 2015-16. The numbers for 2016-17 are estimates, equal to the numbers from 2015-16.

**Table A3. Number of private high schools and private high school graduates included in the report**

<b>Academic year<sup>1</sup></b>	<b>Number of participating high schools</b>	<b>Percent of all US private high schools<sup>2</sup></b>	<b>Percent of US grade 12 enrollment represented<sup>3</sup></b>	<b>Total N (Number of graduates in participating high schools)</b>
2010-2011	385	6%	20%	53,596
2013-2014	366	7%	19%	45,408
2014-2015	342	6%	18%	41,822
2015-2016	280	6%	16%	34,379
2016-2017	218	4%	12%	25,834

1 Academic year is defined as the period between September 1-August 31.

2 The total number of schools used in the denominator of this calculation was obtained from NCES' Elementary and Secondary Information System (ELSi). The private school information is available from the Private School Survey, which is collected every two years through 2015-16. The number of private schools for intermediate years are estimates, equal to the number from the previous available year.

3 The numbers used in both the denominator and numerator of this calculation were obtained from NCES' Elementary and Secondary Information System (ELSi). Grade 12 enrollment information is available from the Private School Survey, which is collected every two years through 2015-16. The numbers for intermediate years are estimates, equal to the numbers from the previous available year.



## Definitions of Public, Non-Charter High School Categories

We used the Common Core of Data (CCD) to construct the sampling frame of schools. The CCD is the Department of Education's primary database on public elementary and secondary education in the United States. From the CCD, we created a sample frame that contains all regular public schools with a 12th grade.

In order to enable public, non-charter high schools to compare their own outcomes with those of similar high schools, the outcomes in this report are presented on the basis of school-level characteristics: low income and higher income; high minority and low minority; and urban, suburban, or rural. Membership in these categories for each academic year is based on CCD data for the corresponding year with one exception: for the academic year of 2016-17, the categories are based on the information from the same source for 2015-16.

Low income schools are defined as schools where at least 50 percent of the entire student population (not just graduating seniors) is eligible for free or reduced price lunch. Minority schools are defined as those schools where at least 40 percent of the students are Black or Hispanic. Locale is defined by the NCES urban-centric locale code. Schools with a code from 11 to 13 are defined as urban. Schools with a code from 21 to 23 are defined as suburban. And those with a code 31 to 43, covering both town and rural areas, are defined as rural.

Combinations of these characteristics results in seven groups of high schools. Thus, the outcomes are presented for the following categories of high schools:

- Low income schools
- Higher income schools
- Low minority schools
- High minority schools
- Urban schools
- Suburban schools
- Rural schools

**Table A3. Number of public, non-charter high schools and public, non-charter high school graduates included in the report by category of high schools**

<b>Group</b>	<b>Academic year</b>	<b>Number of participating high schools</b>	<b>Percent of US grade 12 enrollment represented</b>	<b># of states represented</b>	<b>Total N (Number of Graduates in sample)</b>
Low Income Schools	2010-2011	1,699	42%	49	373,333
	2013-2014	2,144	44%	48	471,970
	2014-2015	2,127	43%	46	470,163
	2015-2016	2,152	43%	46	485,295
	2016-2017	1,854	39%	46	435,035
Higher Income Schools	2010-2011	3,783	44%	49	870,186
	2013-2014	3,749	46%	49	831,555
	2014-2015	3,656	45%	48	801,917
	2015-2016	3,621	44%	49	799,007
	2016-2017	3,019	37%	49	677,459
High Minority Schools	2010-2011	1,641	50%	40	474,951
	2013-2014	1,855	52%	42	524,757
	2014-2015	1,857	50%	40	524,442
	2015-2016	1,919	50%	38	550,977
	2016-2017	1,727	46%	40	503,211
Low Minority Schools	2010-2011	3,841	40%	49	768,568
	2013-2014	4,038	42%	50	778,768
	2014-2015	3,926	40%	49	747,638
	2015-2016	3,854	40%	50	733,325
	2016-2017	3,146	33%	50	609,283
Urban Schools	2010-2011	1,506	58%	47	422,575
	2013-2014	1,643	60%	46	453,382
	2014-2015	1,590	57%	44	440,084
	2015-2016	1,635	58%	43	451,628
	2016-2017	1,459	52%	43	408,142
Suburban Schools	2010-2011	1,402	48%	43	495,984
	2013-2014	1,701	49%	44	590,507
	2014-2015	1,665	48%	44	578,626
	2015-2016	1,620	47%	44	575,842
	2016-2017	1,337	40%	45	490,065
Rural Schools	2010-2011	2,574	29%	48	324,960
	2013-2014	2,549	28%	49	259,636
	2014-2015	2,528	27%	47	253,370
	2015-2016	2,518	27%	49	256,832
	2016-2017	2,077	23%	48	214,287

The numbers used in both the denominator and numerator of this calculation were obtained from NCES' Elementary and Secondary Information System (ELSi). The denominator is the number of grade 12 enrollments for all schools in a particular category of high schools. The numerator is the number of grade 12 enrollments for participating public high schools in the category. Grade 12 enrollment information is available from the Common Core of Data through 2015-16. The numbers for 2016-17 are estimates, equal to the numbers from 2015-16.

In addition to our standard results for schools in low income and higher income categories, the report also presents postsecondary outcomes for graduates from a subset of low income schools defined as high-poverty schools and a subset of higher income schools defined as low-poverty schools. High poverty schools are defined as those where at least 75 percent of the student population is eligible for free or reduced price lunch. Low poverty schools are defined as those where less than 25 percent of the student population is eligible for free or reduced price lunch.

**Table A4. Number of public, non-charter high schools and public, non-charter high school graduates in high poverty and low poverty schools included in the report by category**

Group	Academic year	Number of participating high schools	Percent of US grade 12 enrollment represented	# of states represented	Total N (Number of Graduates in sample)
High Poverty Schools	2010-2011	571	47%	39	106,409
	2013-2014	863	50%	44	177,244
	2014-2015	852	49%	44	176,808
	2015-2016	915	50%	40	191,450
	2016-2017	739	43%	41	161,165
Low Poverty Schools	2010-2011	1,510	49%	47	442,002
	2013-2014	1,414	52%	48	398,650
	2014-2015	1,366	50%	47	376,643
	2015-2016	1,288	50%	47	361,865
	2016-2017	1,100	43%	47	309,397

The numbers used in both the denominator and numerator of this calculation were obtained from NCES' Elementary and Secondary Information System (ELSi). The denominator is the number of grade 12 enrollments for all schools in a particular category of high schools. The numerator is the number of grade 12 enrollments for participating public high schools in the category. Grade 12 enrollment information is available from the Common Core of Data through 2015-16. The numbers for 2016-17 are estimates, equal to the numbers from 2015-16.

## Postsecondary Data

College enrollment, persistence, and completion outcomes are determined by matching the graduate files received from high schools each year, to the postsecondary enrollment data held by the National Student

Clearinghouse. The National Student Clearinghouse is a unique and trusted source for higher education enrollment and degree verification. Currently, Clearinghouse data include more than 3,600 postsecondary institutions and 98 percent of U.S. postsecondary enrollments (for detailed coverage of postsecondary enrollments see Appendix B). Because the database is comprised of student-level data, researchers can use it to link concurrent as well as consecutive enrollments of individual students at multiple institutions — a capability that distinguishes the Clearinghouse data from national databases built with institution-level data.

In order to preserve comparability to the reports that schools and districts receive on their graduates' college access, persistence, and completion rates through the

Clearinghouse's StudentTracker service, results have not been adjusted to account for a student's outcome not being captured due to noncoverage by Clearinghouse data.

## Definitions of Outcomes

College enrollment in the first fall after high school graduation: Percentage of high school students who enrolled in a two- or four- year postsecondary institution in the fall semester immediately following graduation. The fall semester immediately following graduation is defined as any enrollment that occurs between August 15 and October 31.

College enrollment in the first year after high school graduation: Percentage of high school students who enrolled in a two- or four-year postsecondary institution in the academic year immediately following graduation. The first year after high school includes any enrollment that occurs between August 15 of the graduation year and August 14 of the following year.

College enrollment in the first two years after high school graduation: Percentage of high school students who enrolled in a two- or four-year postsecondary institution in the first two years following graduation. The first two years after high school includes any enrollment that occurs between August 15 of the graduation year and August 14 of the second year.

Persistence from first to second year of college: Percentage of students enrolled in the first year after high school graduation who remained enrolled in postsecondary education in the second year. This is the percentage of students who re-enrolled at any postsecondary institution, not necessarily the same one they started in. Thus, it is different from the typical measure of retention at the same institution.

College completion within six years after high school graduation: Percentage of high school students who attained a degree in a two- or four-year postsecondary institution in the six academic years immediately following graduation. Only associate's, bachelor's, and advanced degrees are counted in these rates. Certificates are not included.

## STEM College Completions

Analysis is based on degree records that were awarded to students within six years of high school graduation. Only associate's, bachelor's, and advanced degrees are considered. Certificates are not included. The field of study, whenever reported by the postsecondary institution, is mapped to the NCES' Classification of Instructional Programs (CIP) code. NCES classifies instructional programs by a six-digit CIP code at the most granular level and organizes them into CIP families by their two-digit prefix.

The definition of STEM (science, technology, engineering, and math) used in this analysis is based on a listing of six-digit CIP codes used by the National Science Foundation, and it includes the following disciplines:

- Biological and Agricultural Sciences
- Computer Sciences
- Earth, Atmospheric, and Ocean Sciences
- Engineering
- Mathematics
- Physical Sciences
- Psychology
- Social Sciences

If a student is awarded more than one degree and at least one of them is in a STEM discipline, the earliest STEM degree is considered for this analysis.

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## APPENDIX B: POSTSECONDARY COVERAGE TABLES

<https://nscresearchcenter.org/wp-content/uploads/HSBR2018-Appendix-B-Postsecondary-Coverage.xlsx>

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## APPENDIX C:

[https://nscresearchcenter.org/wp-content/uploads/HSBR2018\\_Appendix-C.xlsx](https://nscresearchcenter.org/wp-content/uploads/HSBR2018_Appendix-C.xlsx)

<https://nscresearchcenter.org/wp-content/uploads/AppendixCTopMajors-1.xlsx>