

Appendix D

Enrollment Data

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Science Enrollment Report

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Science Enrollment Report

In an effort to determine the degree to which high school students participate in Science instruction beyond the minimum requirements for graduation, the Office of Planning and Evaluation looked at course enrollment for high school students over a five-year period. The data was disaggregated by

- grade level (**overall** and **grade 12**),
- course type (**accelerated**—AP, IB, and intensified, **introductory**, **regular**, **HILT**, and **special education**), and
- demographics (**race/ethnicity**, **gender**, **economic status**, **LEP status**, and **disability status**).

This report also examined the number of Science classes in which high school students enrolled at one time. This data was disaggregated by

- grade level (**overall** and **grade 12**),
- number of courses in which students enrolled in a single year (one class, two or more classes, no classes), and
- demographics (**race/ethnicity**, **gender**, **economic status**, **LEP status**, and **disability status** or **students with disabilities—SWD**).

To obtain a *Standard Diploma* in Virginia, students must obtain three Science credits (one must be verified) in two different areas of study. To obtain an *Advanced Diploma* in Virginia, students must obtain four Science credits (two must be verified) in three different areas of study. To reach this goal, students may take more than one Science course in a year.

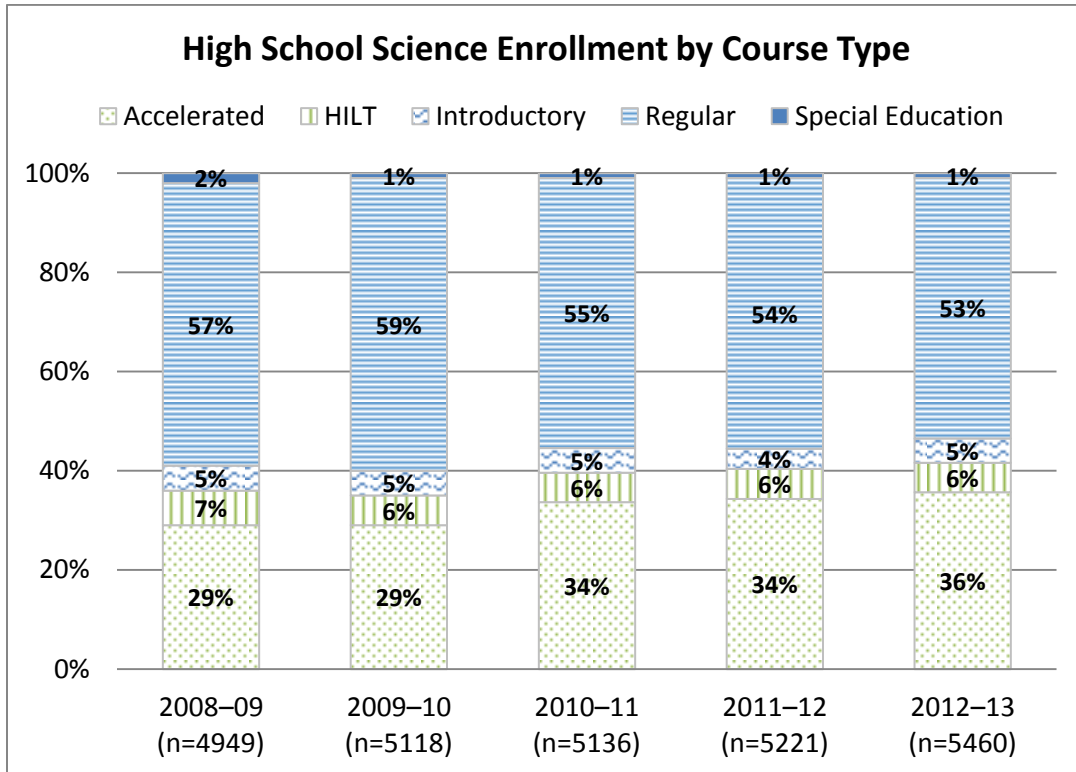
Science enrollment numbers were used as the denominator in the first half of this report (overall participation). Student enrollment numbers were used as the denominator in the second half of this report (number of science courses). Science enrollment numbers are not equal to student enrollment numbers due to the fact that some students enroll in more than one Science course in a given year.

High School Science Enrollment

This section displays high school Science enrollment by course type over five years. Total high school data reflect the number of enrollments in Science classes (some students enroll in more than one science class per year while others do not enroll at all), not the number of students enrolled in Science classes.

Figure 1 shows five years of overall high school Science enrollment data by course type.

Figure 1: High School Science Enrollment by Course Type, 2008–09 through 2012–13



Figures 2 through 6 show overall high school Science enrollment data by course type and race/ethnicity for each of the last five school years.

Figure 2: High School Science Enrollment by Course Type and Race/Ethnicity, 2012–13

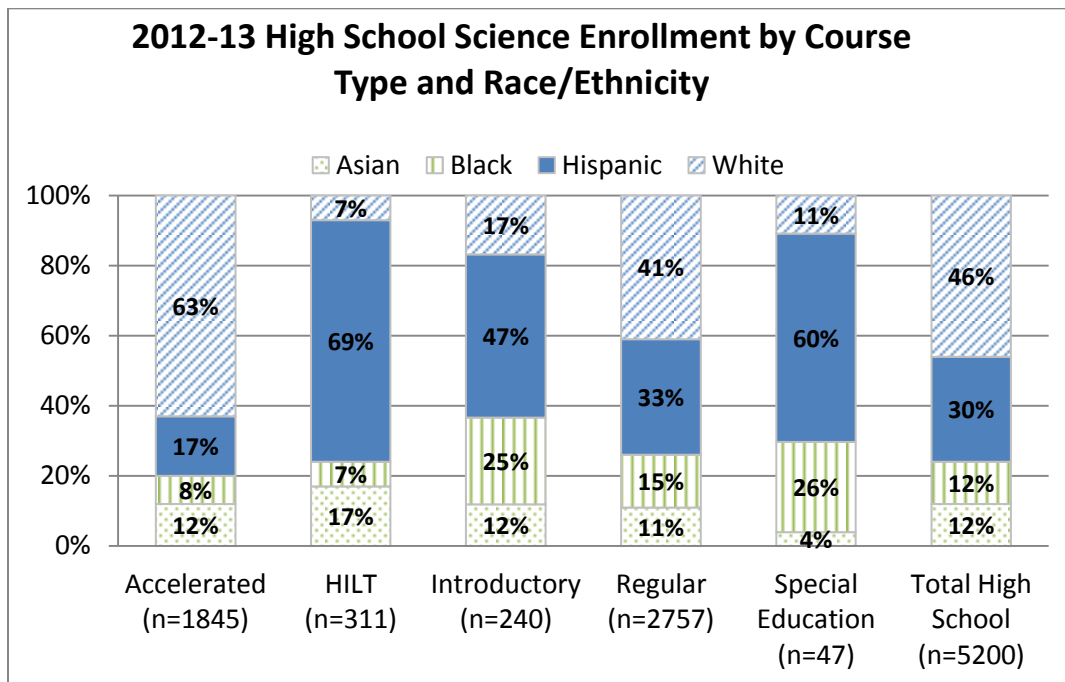


Figure 3: High School Science Enrollment by Course Type and Race/Ethnicity, 2011–12

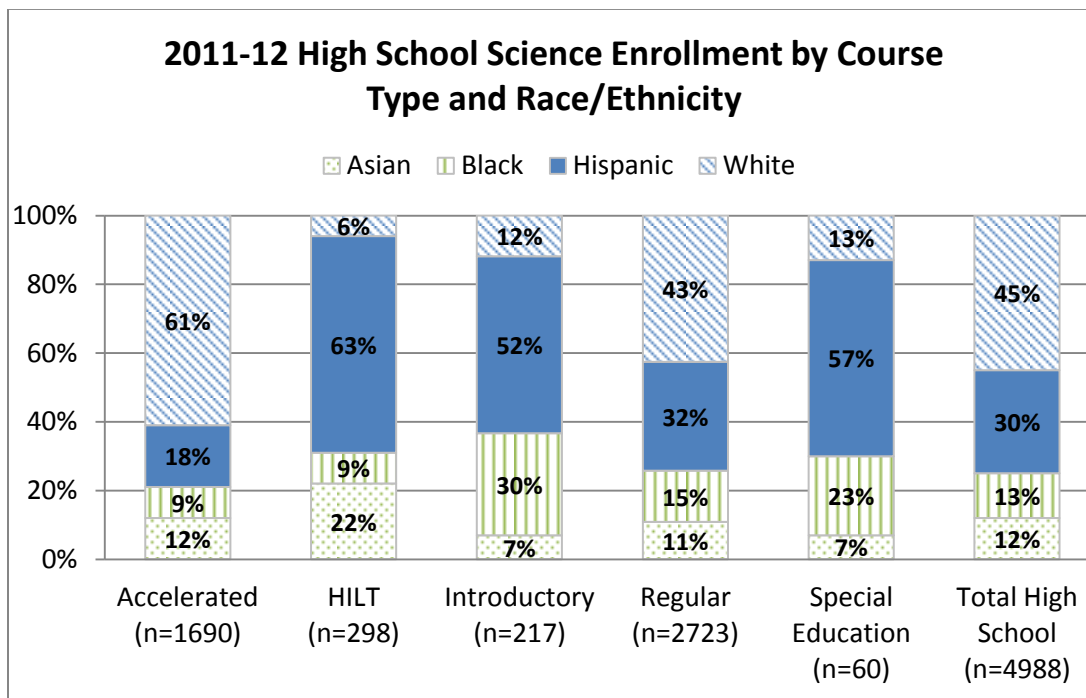


Figure 4: High School Science Enrollment by Course Type and Race/Ethnicity, 2010–11

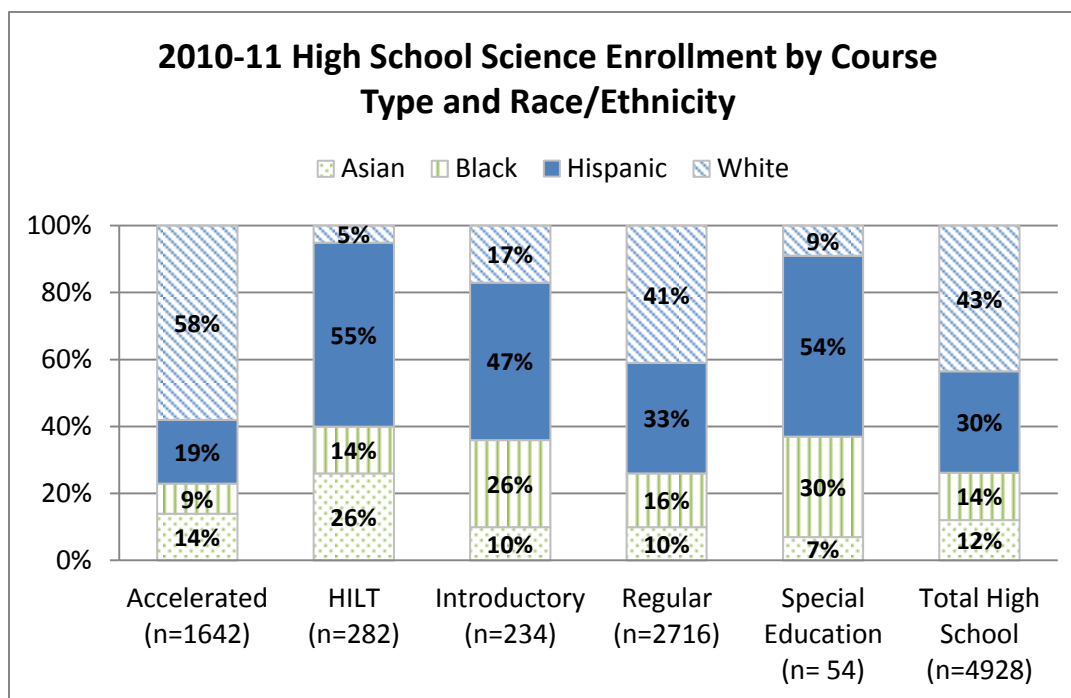


Figure 5: High School Science Enrollment by Course Type and Race/Ethnicity, 2009–10

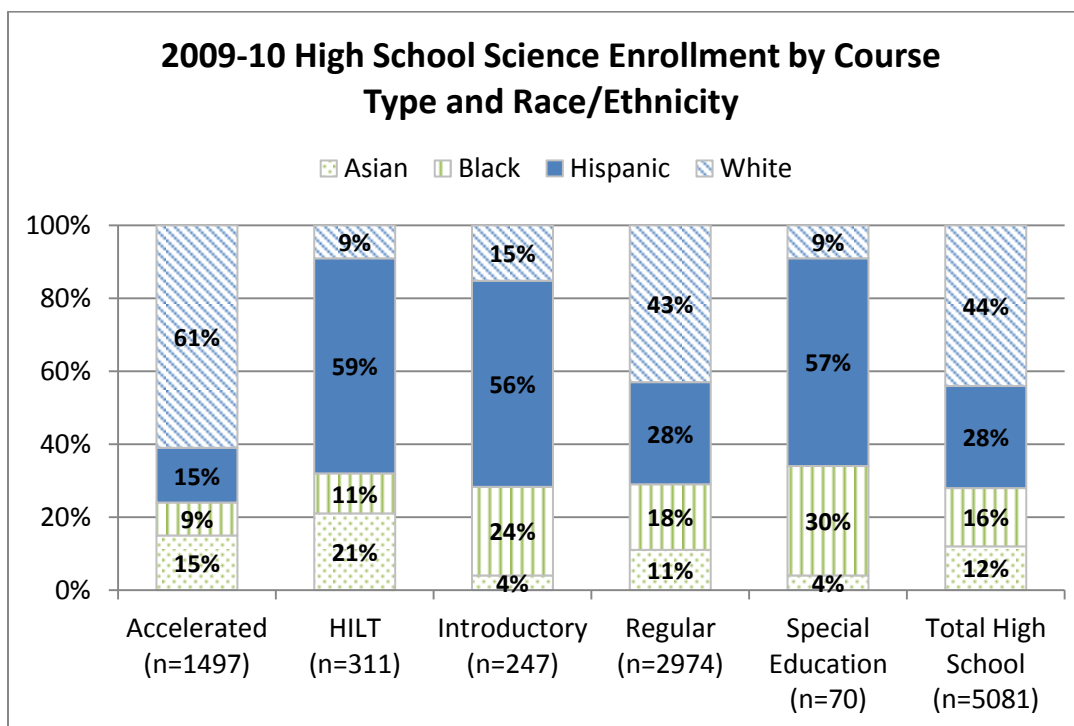
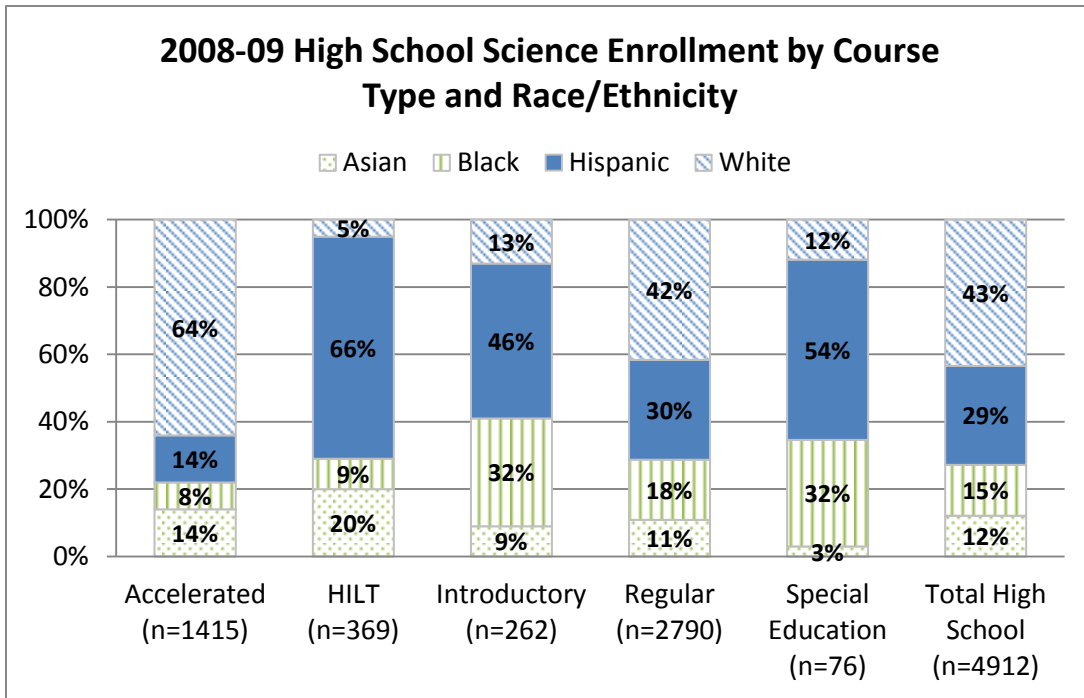


Figure 6: High School Science Enrollment by Course Type and Race/Ethnicity, 2008–09



Figures 7 through 11 show overall high school Science enrollment data by course type and gender for each of the last five school years.

Figure 7: High School Science Enrollment by Course Type and Gender, 2012–13

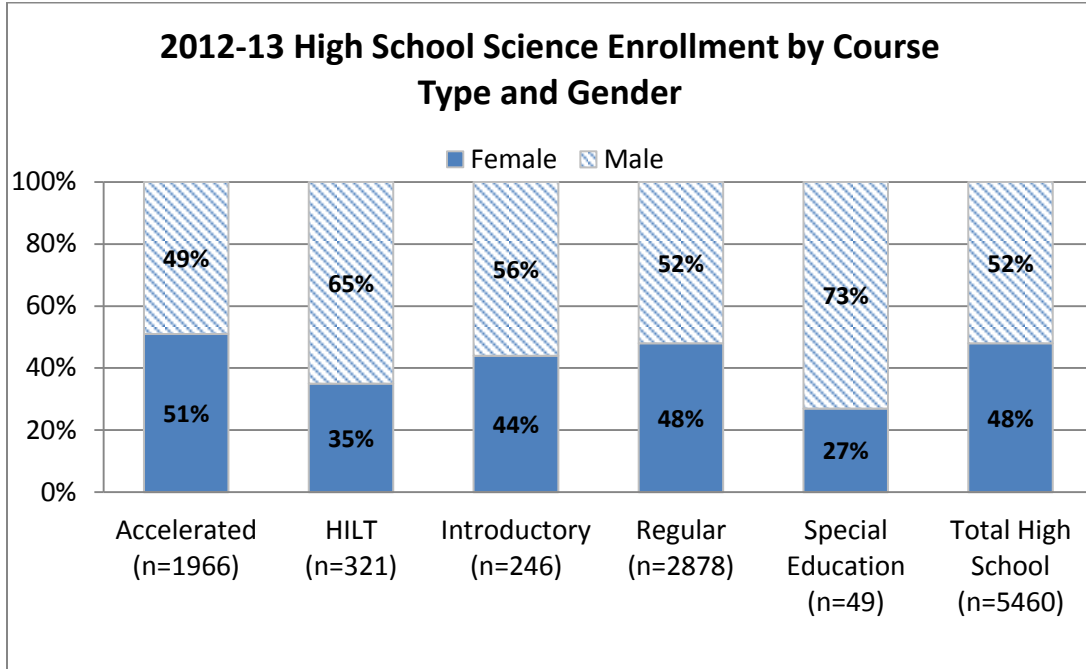


Figure 8: High School Science Enrollment by Course Type and Gender, 2011–12

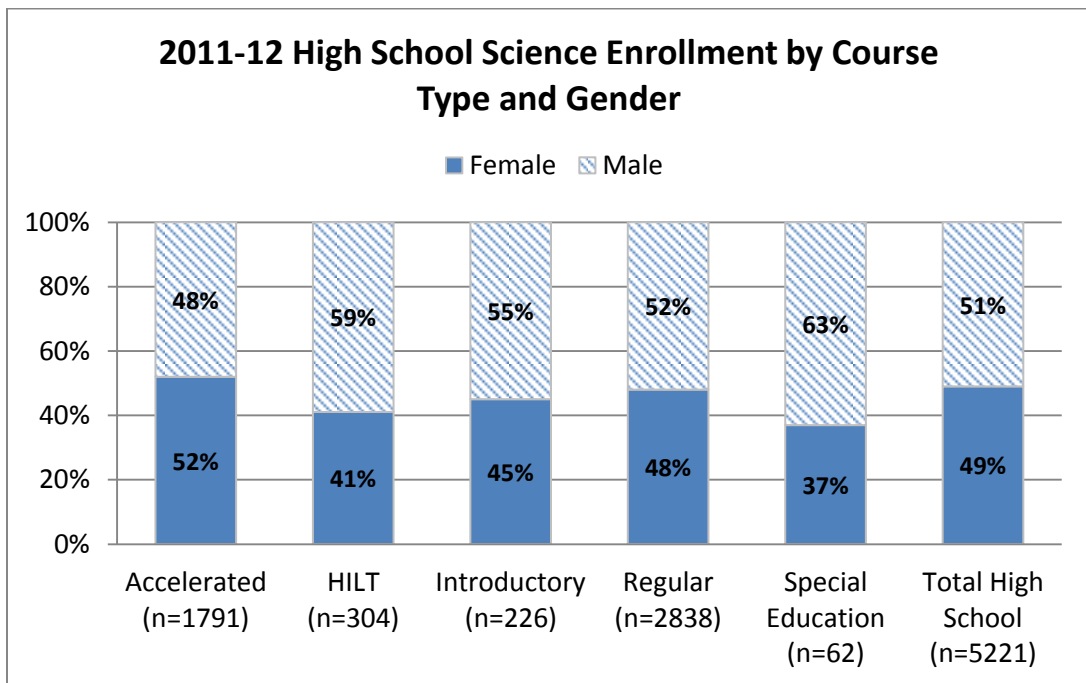


Figure 9: High School Science Enrollment by Course Type and Gender, 2010–11

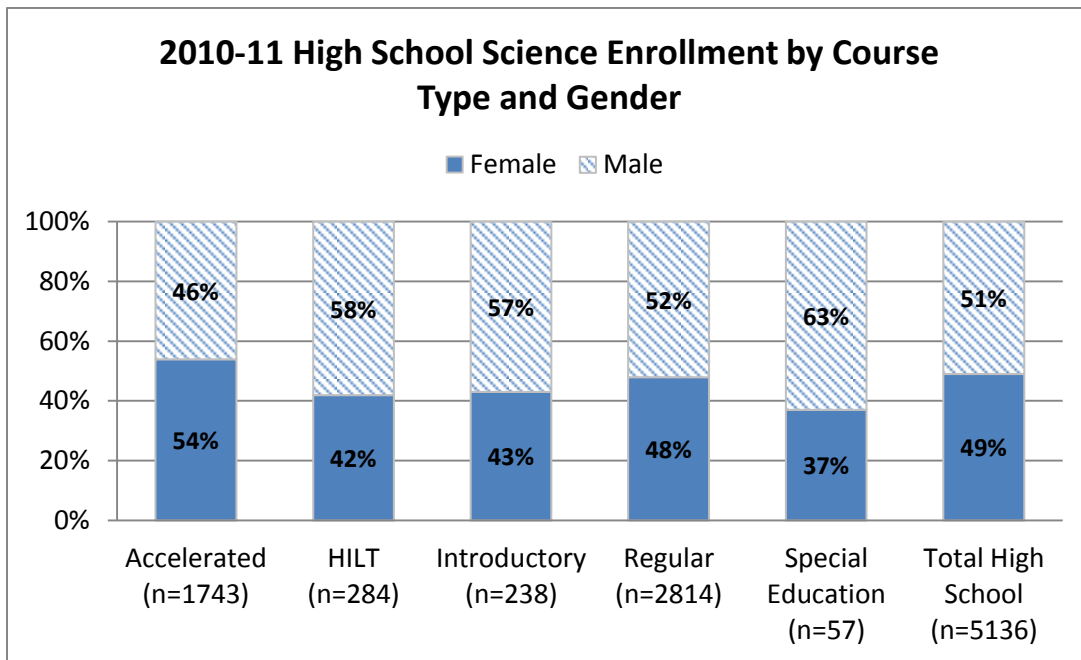


Figure 10: High School Science Enrollment by Course Type and Gender, 2009–10

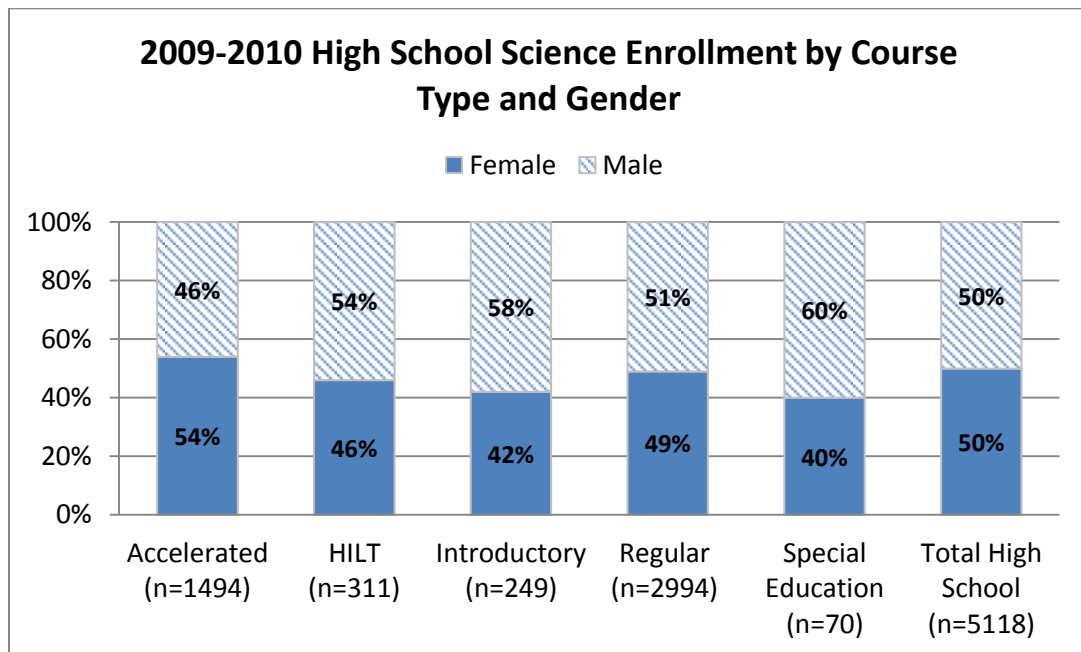
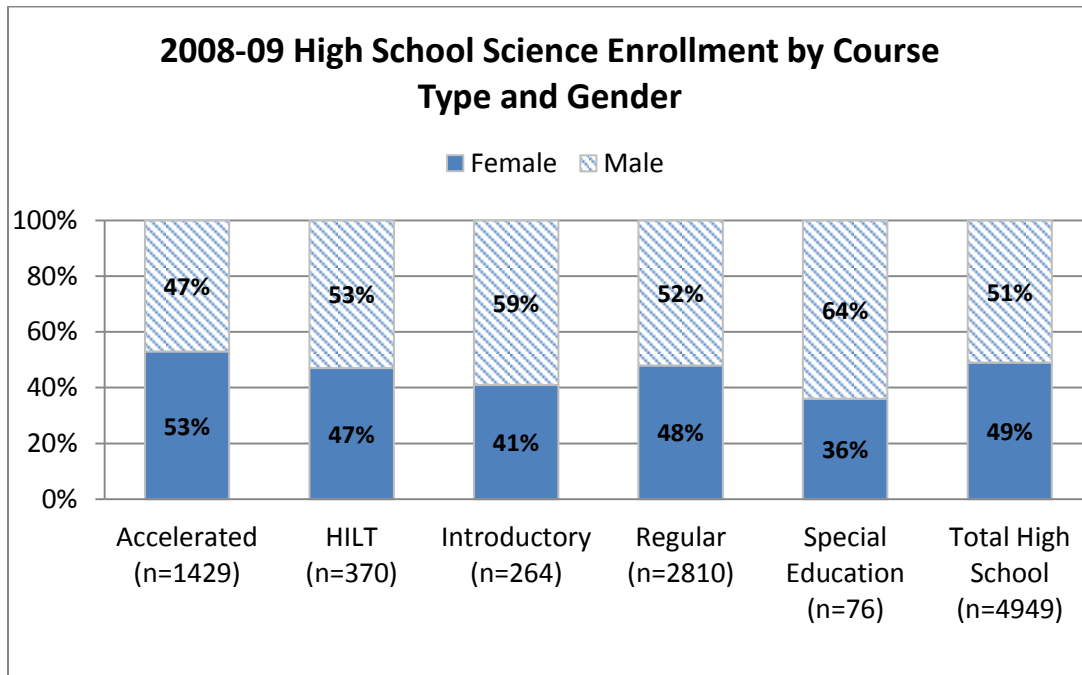


Figure 11: High School Science Enrollment by Course Type and Gender, 2008–09



Figures 12 through 16 show overall high school Science enrollment data by course type and economic status for each of the last five school years.

Figure 12: High School Science Enrollment by Course Type and Economic Status, 2012–13

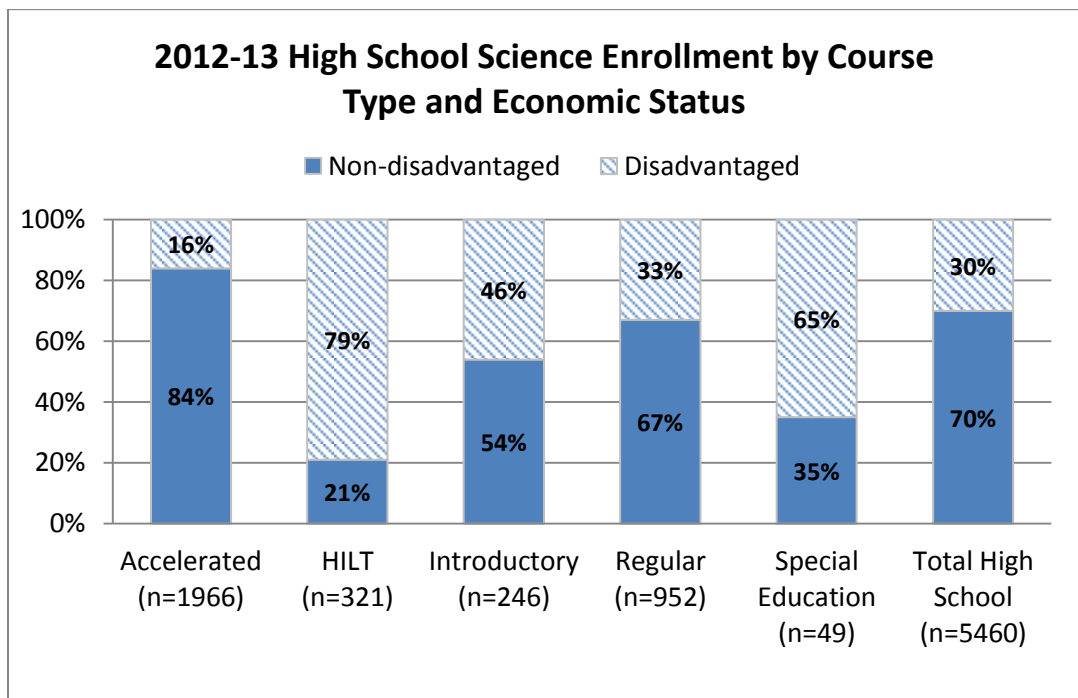


Figure 13: High School Science Enrollment by Course Type and Economic Status, 2011–12

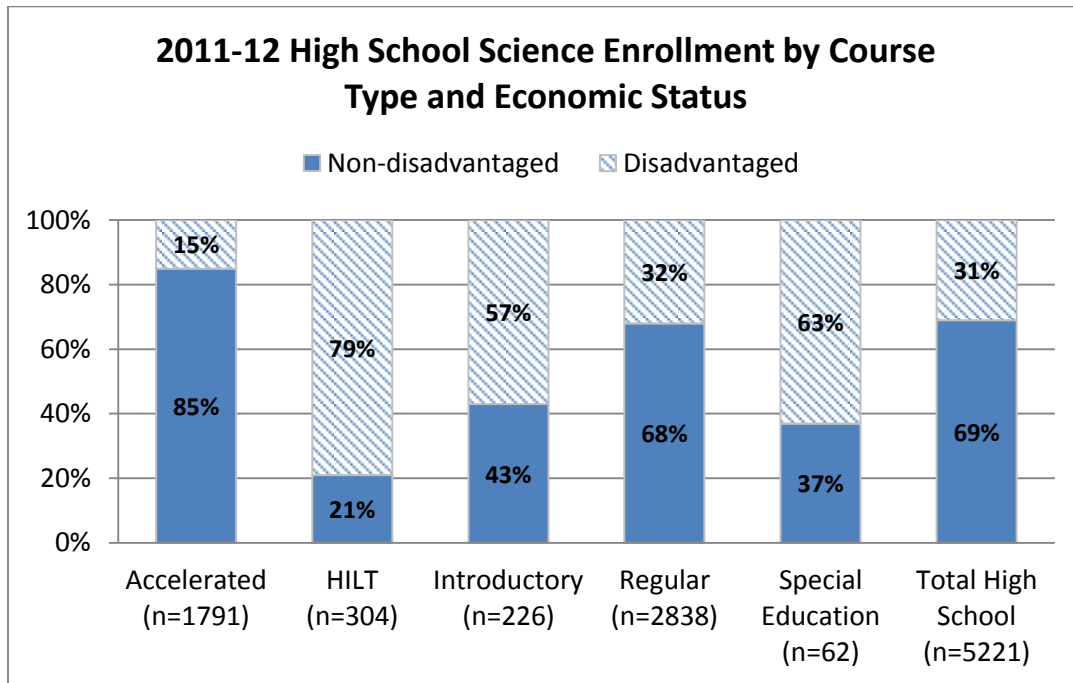


Figure 14: High School Science Enrollment by Course Type and Economic Status, 2010–11

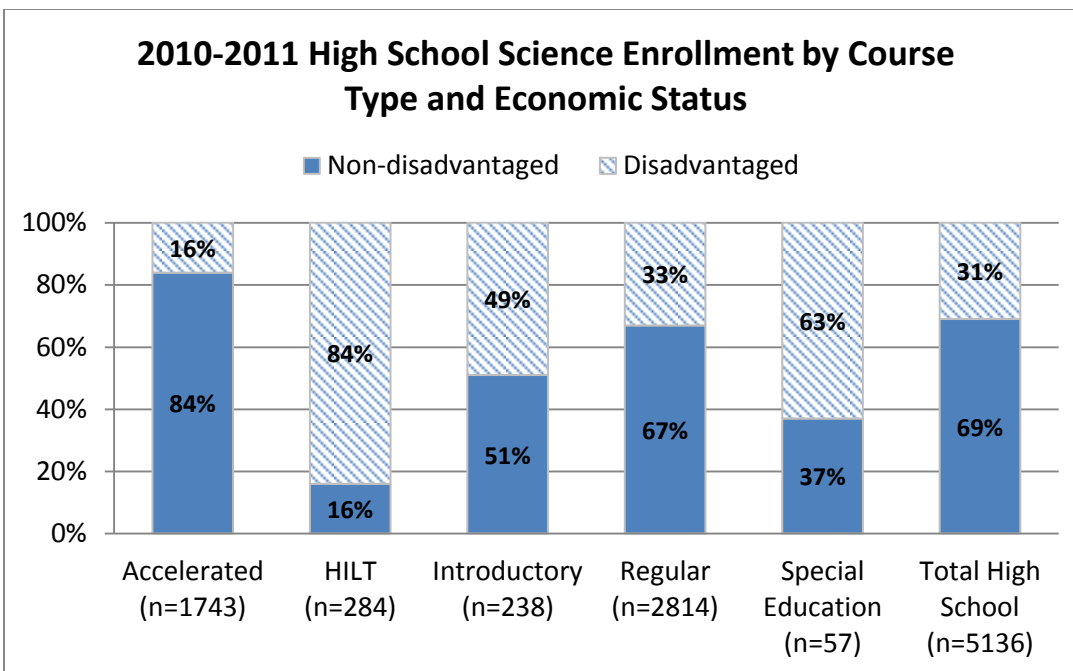


Figure 15: High School Science Enrollment by Course Type and Economic Status, 2009–10

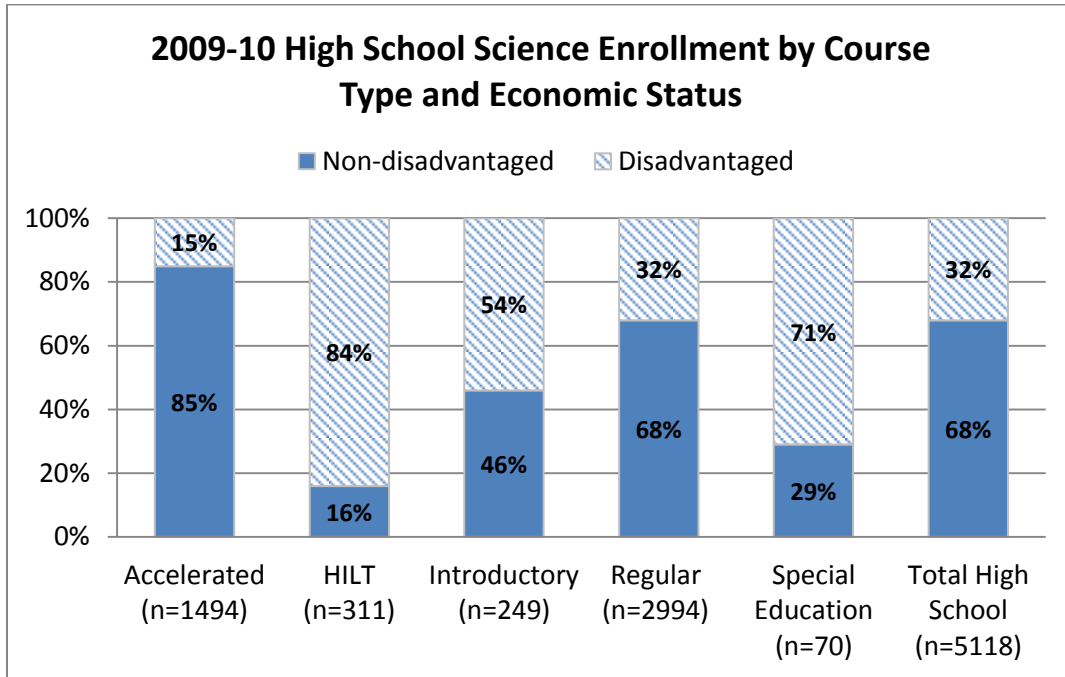
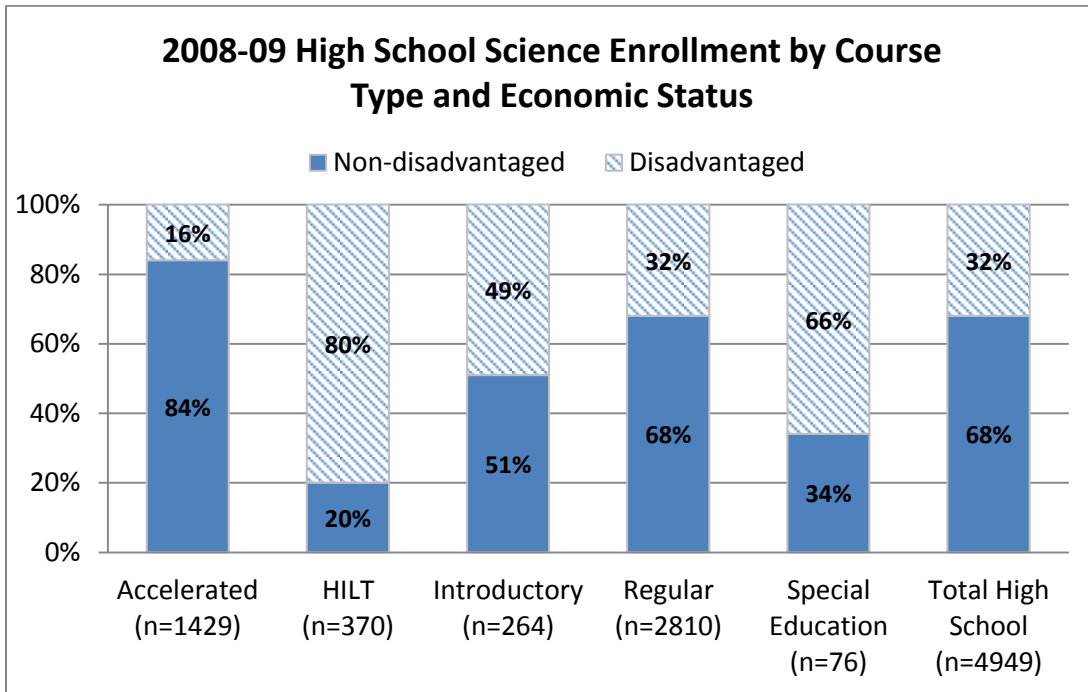


Figure 16: High School Science Enrollment by Course Type and Economic Status, 2008–09



Figures 17 through 21 show overall high school Science enrollment data by course type and limited English proficiency (LEP) status for each of the last five school years.

Figure 17: High School Science Enrollment by Course Type and LEP Status, 2012–13

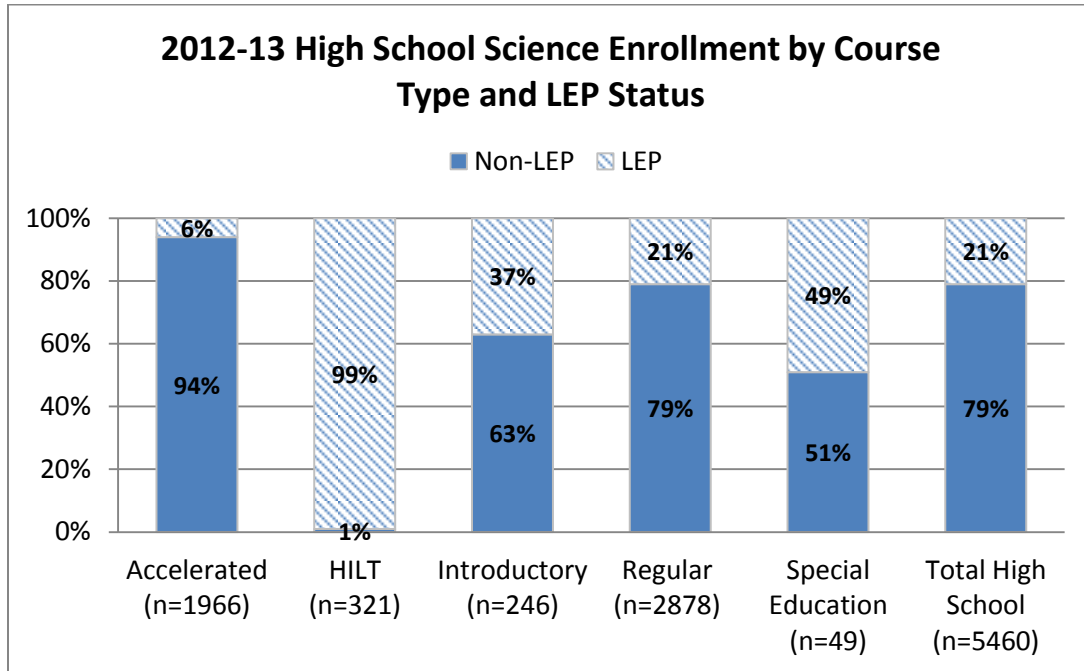


Figure 18: High School Science Enrollment by Course Type and LEP Status, 2011–12

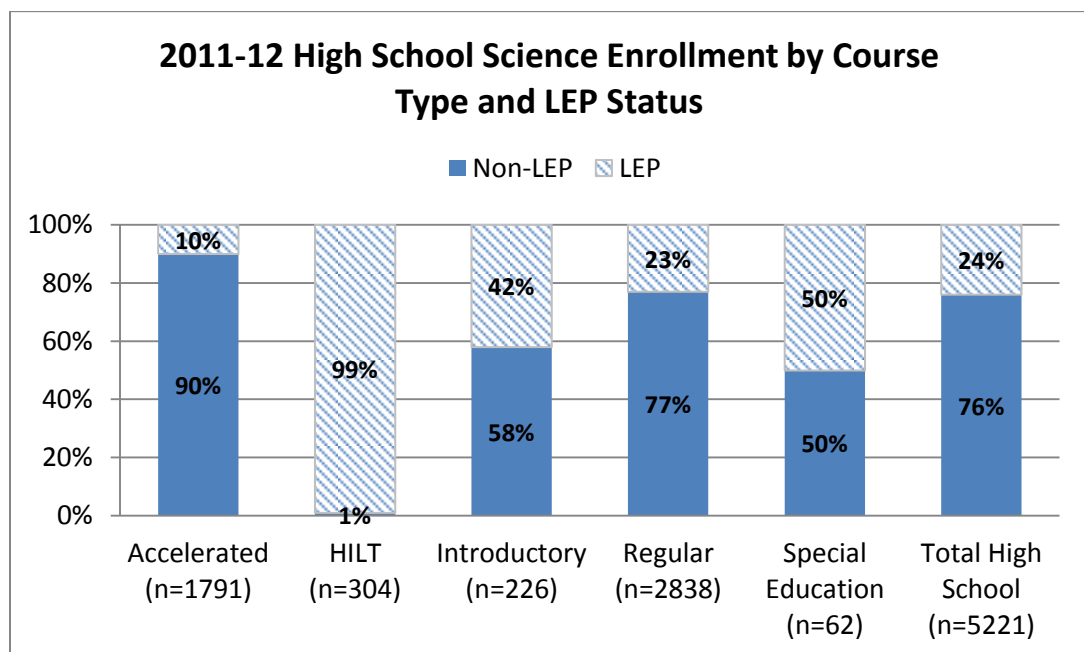


Figure 19: High School Science Enrollment by Course Type and LEP Status, 2010–11

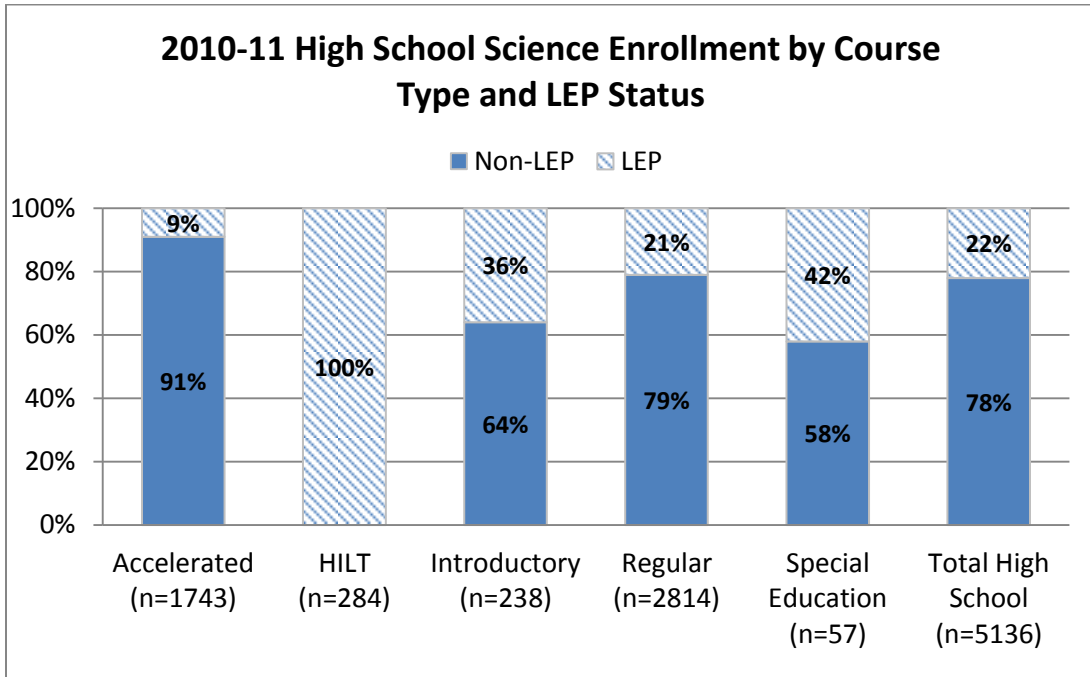


Figure 20: High School Science Enrollment by Course Type and LEP Status, 2009–10

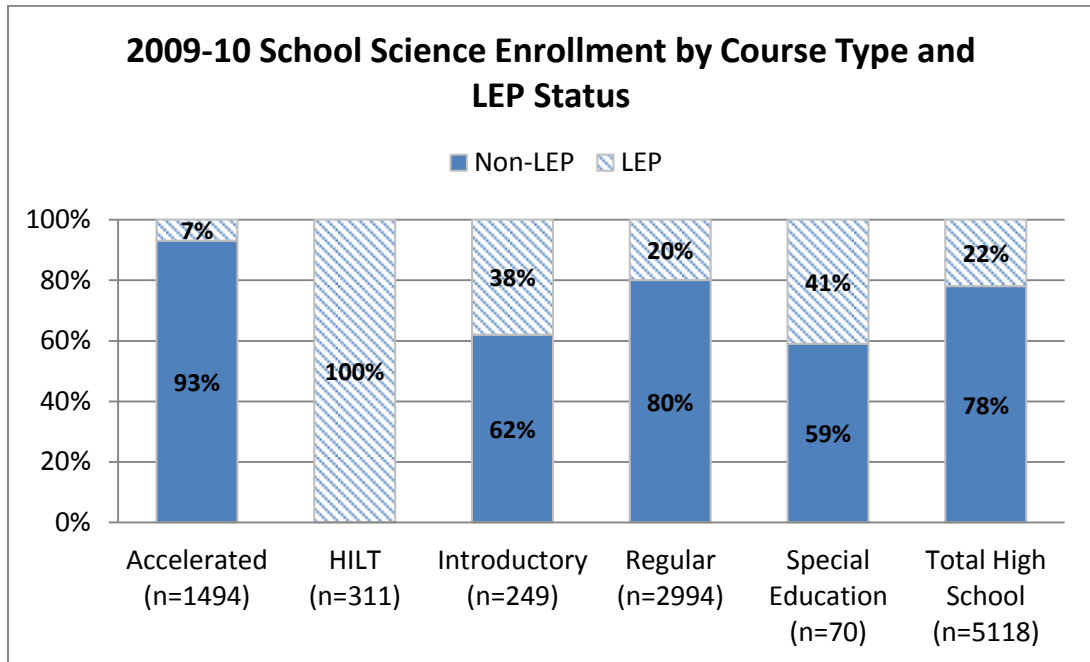
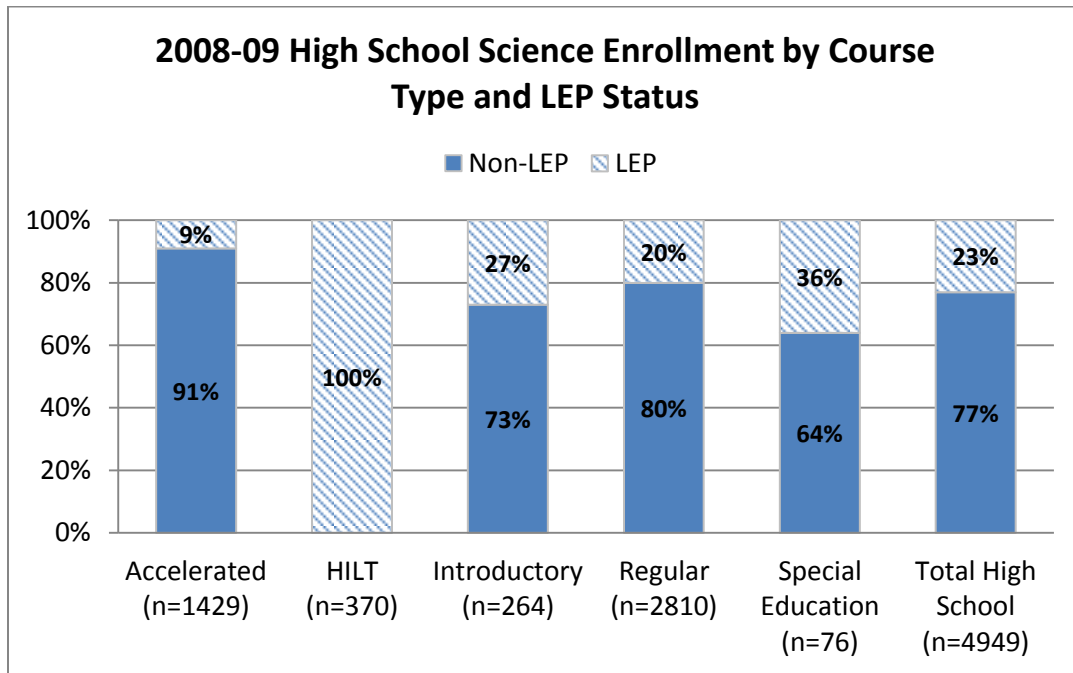


Figure 21: High School Science Enrollment by Course Type and LEP Status, 2008–09



Figures 22 through 26 show overall high school Science enrollment data by course type and disability status for each of the last five school years.

Figure 22: High School Science Enrollment by Course Type and Disability Status, 2012–13

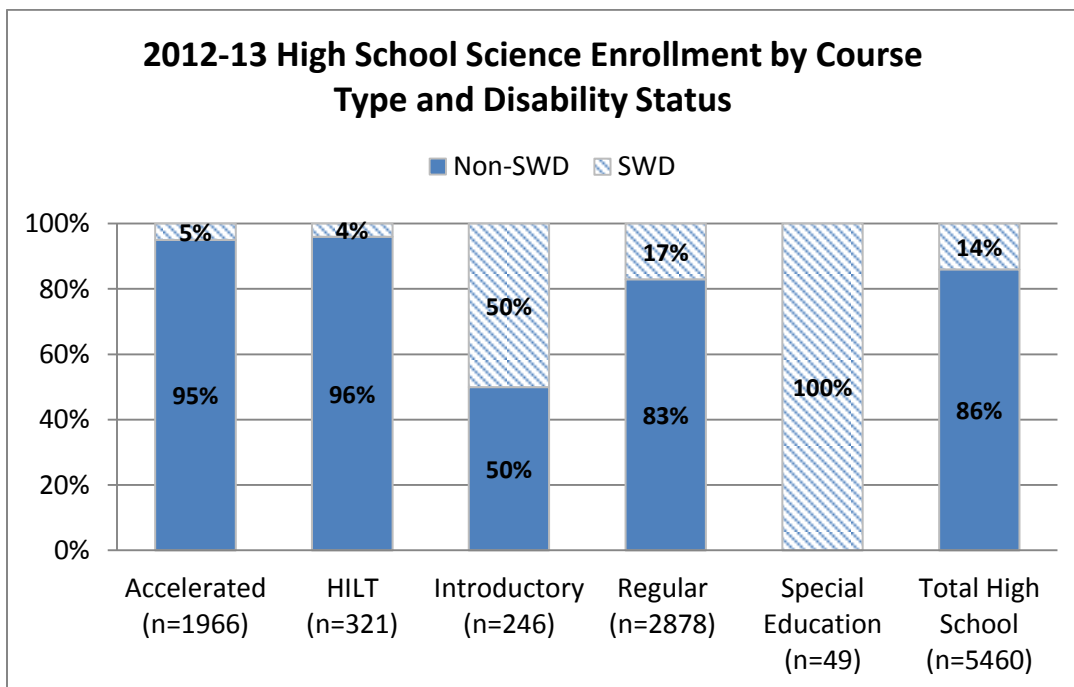


Figure 23: High School Science Enrollment by Course Type and Disability Status, 2011–12

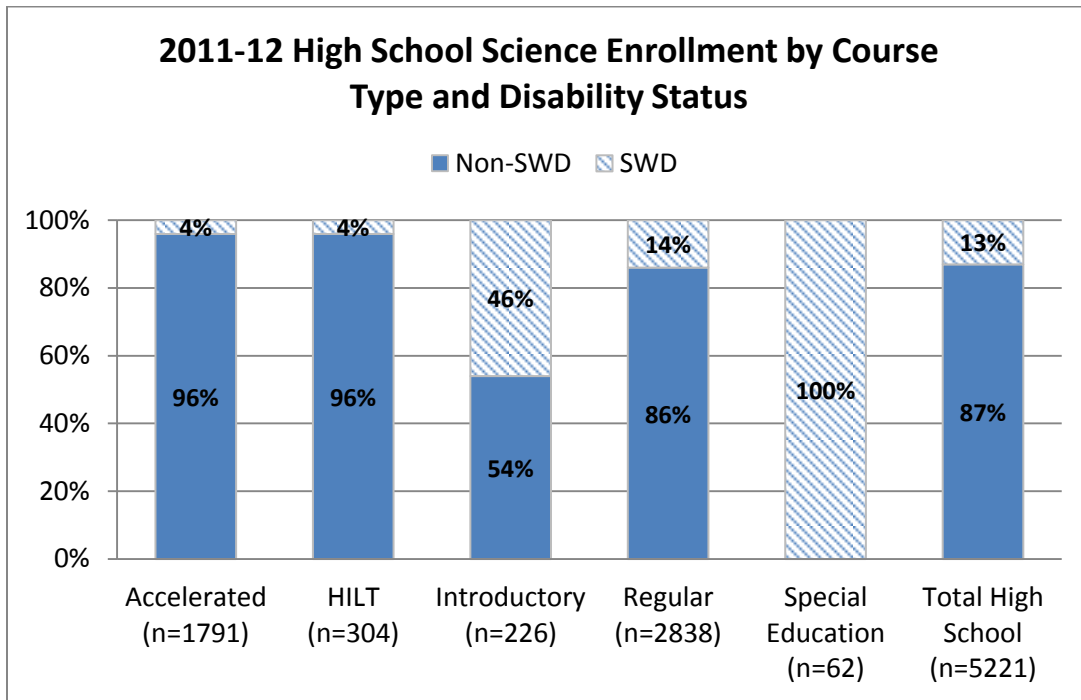


Figure 24: High School Science Enrollment by Course Type and Disability Status, 2010–11

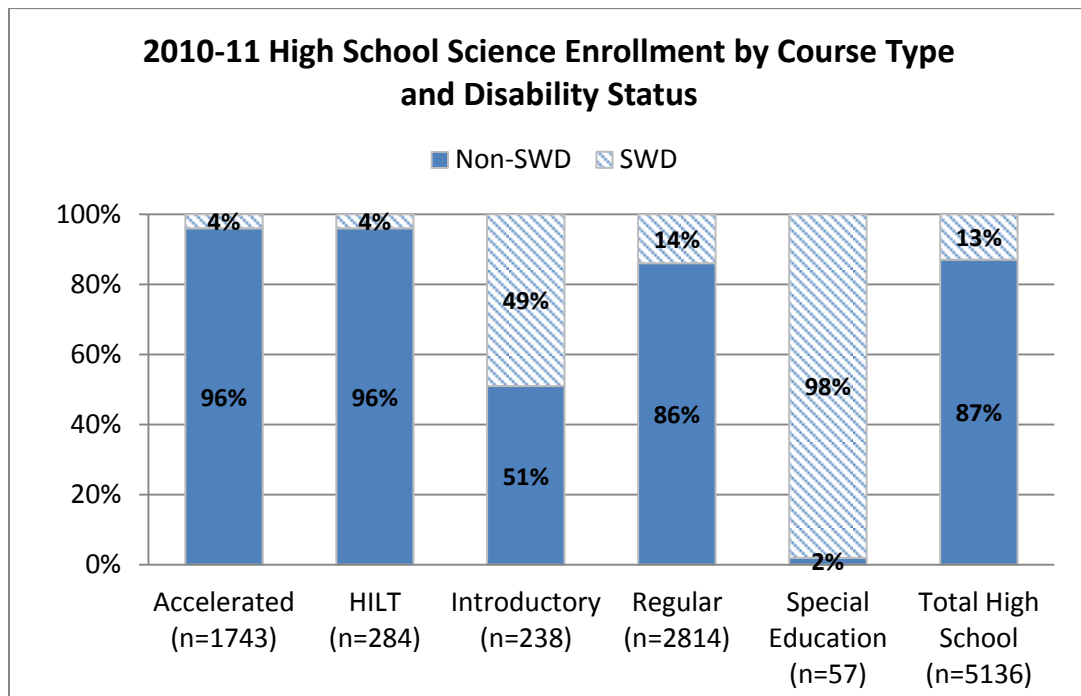


Figure 25: High School Science Enrollment by Course Type and Disability Status, 2009–10

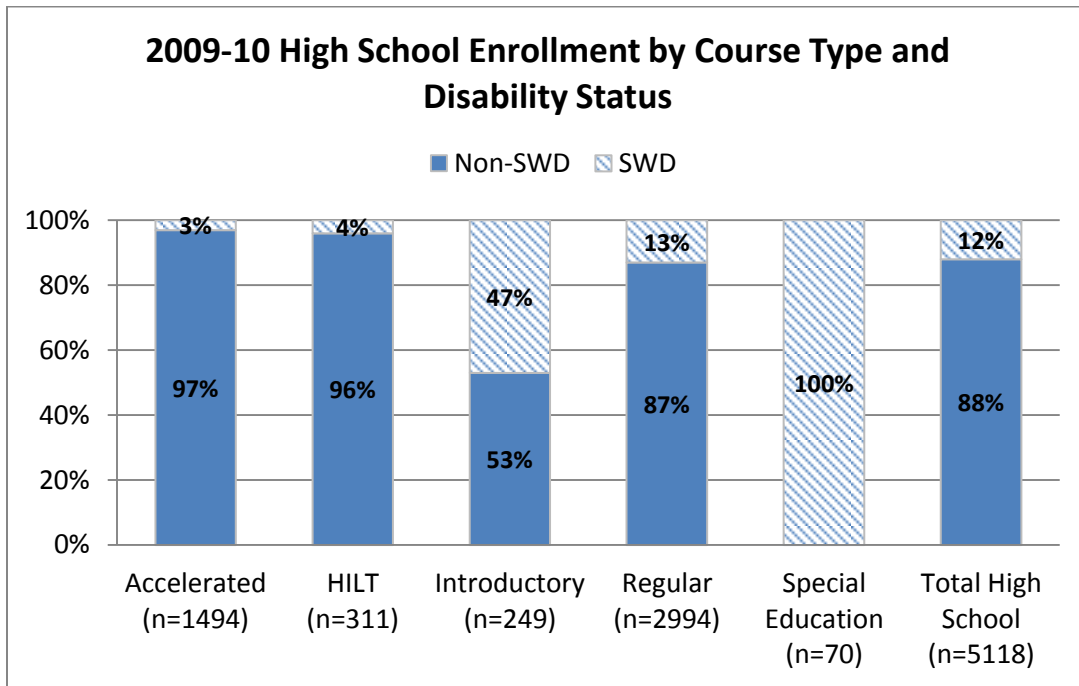
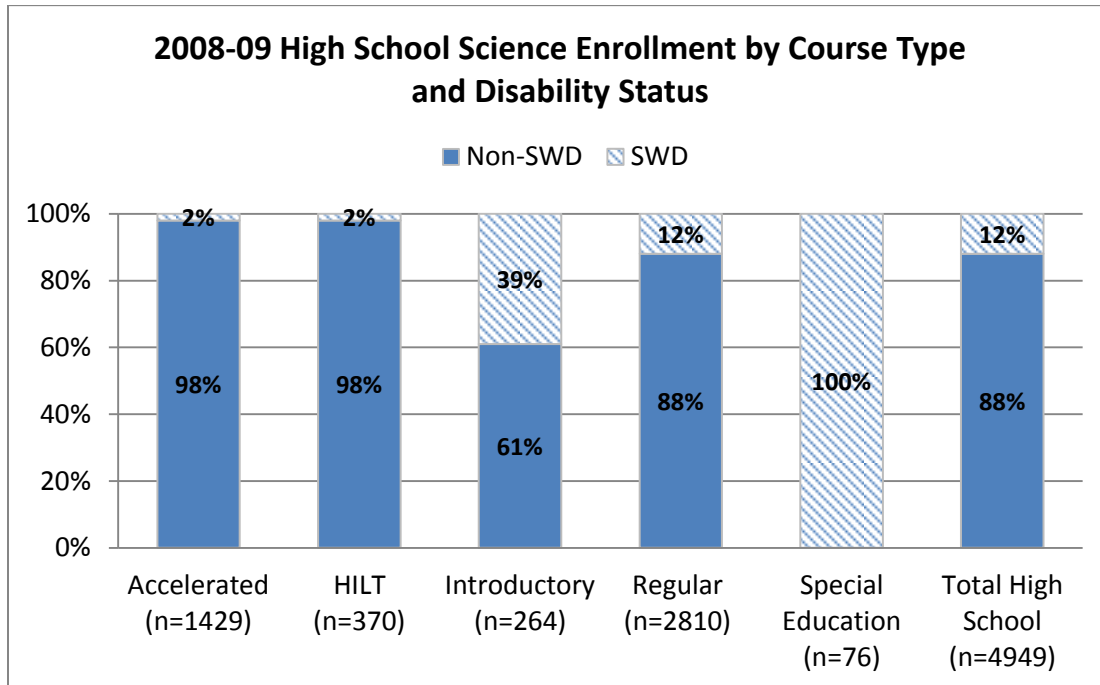


Figure 26: High School Science Enrollment by Course Type and Disability Status, 2008–09

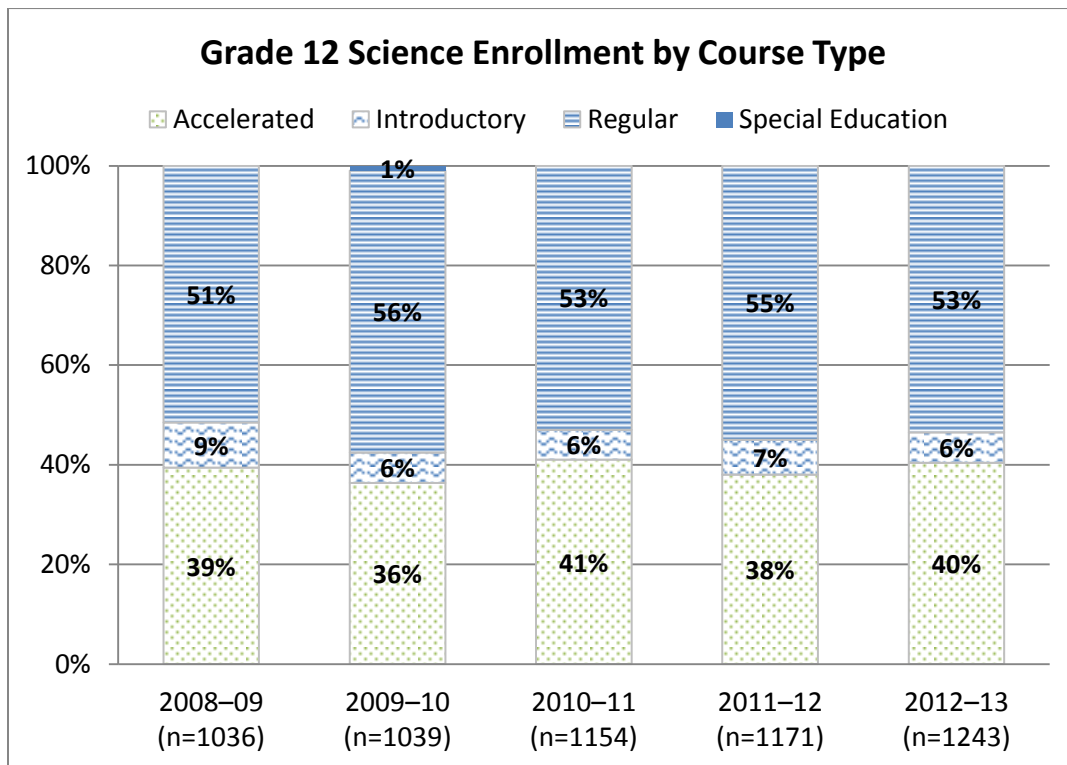


Grade 12 Science Enrollment

This section displays grade 12 Science enrollment by course type and within subgroups over five years. Enrollments in grade 12 are examined separately to offer insight into the extent to which students participate in science instruction beyond the minimum requirements for graduation. Total grade 12 data reflect the number of enrollments in Science classes (students may be enrolled in more than one Science class at a time), not the number of grade 12 students enrolled in Science classes.

Figure 27 shows five years of Science enrollment data for grade 12 students by course type. HILT courses are not represented because less than five 12th grade students were enrolled in a HILT Science course in any given year.

Figure 27: Grade 12 Science Enrollment by Course Type, 2008-09 through 2012-13



The grade 12 figures in this section do not contain data on HILT courses due to the fact that fewer than five students were enrolled in grade 12 HILT Science classes between 2008-09 and 2012-13.

Figures 28 through 32 show grade 12 Science enrollment data by course type and race/ethnicity for each of the last five school years. Figures 29 and 30 do not contain special education enrollment data because fewer than five grade 12 students were enrolled in special education Science courses those years.

Figure 28: Grade 12 Science Enrollment by Course Type and Race/Ethnicity, 2012–13

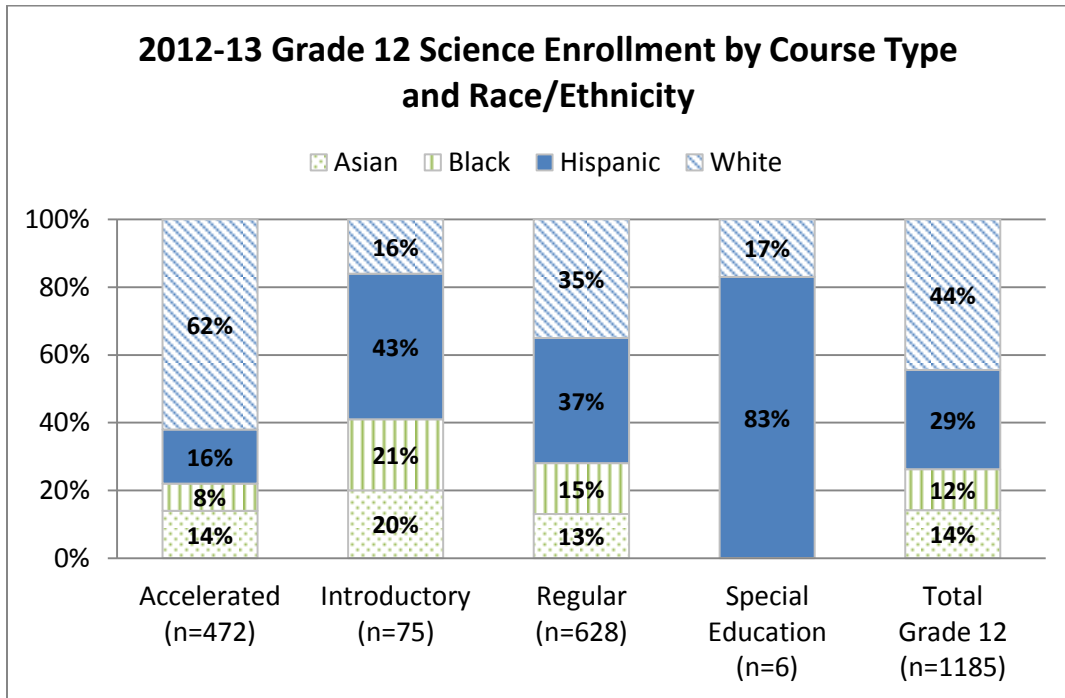


Figure 29: Grade 12 Science Enrollment by Course Type and Race/Ethnicity, 2011–12

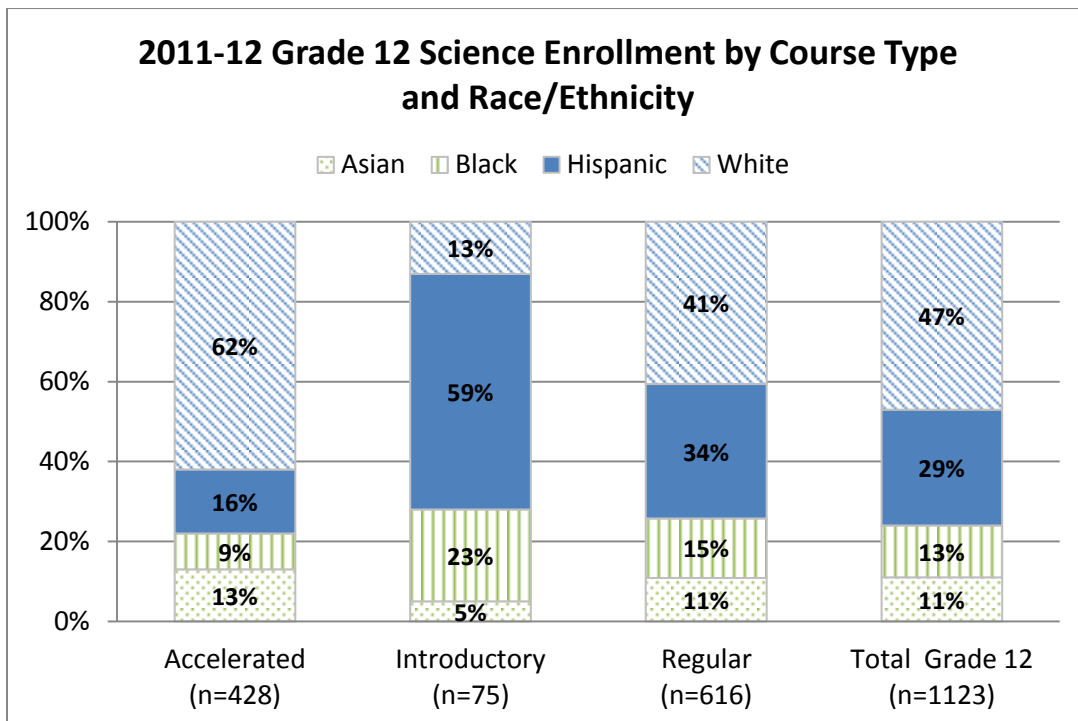


Figure 30: Grade 12 Science Enrollment by Course Type and Race/Ethnicity, 2010–11

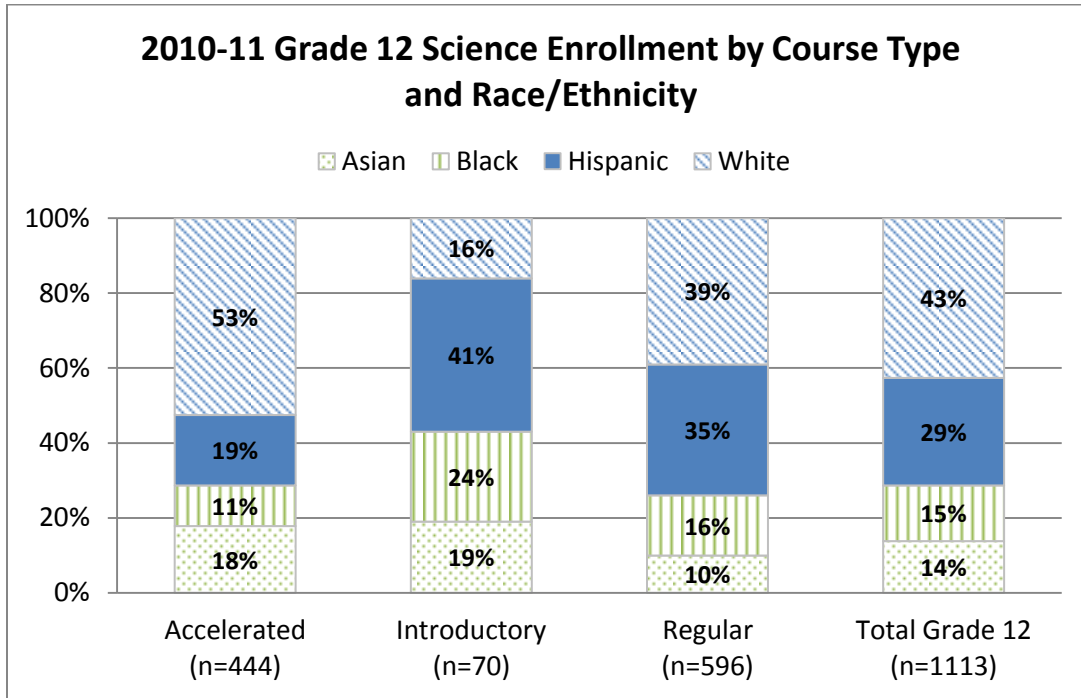


Figure 31: Grade 12 Science Enrollment by Course Type and Race/Ethnicity, 2009–10

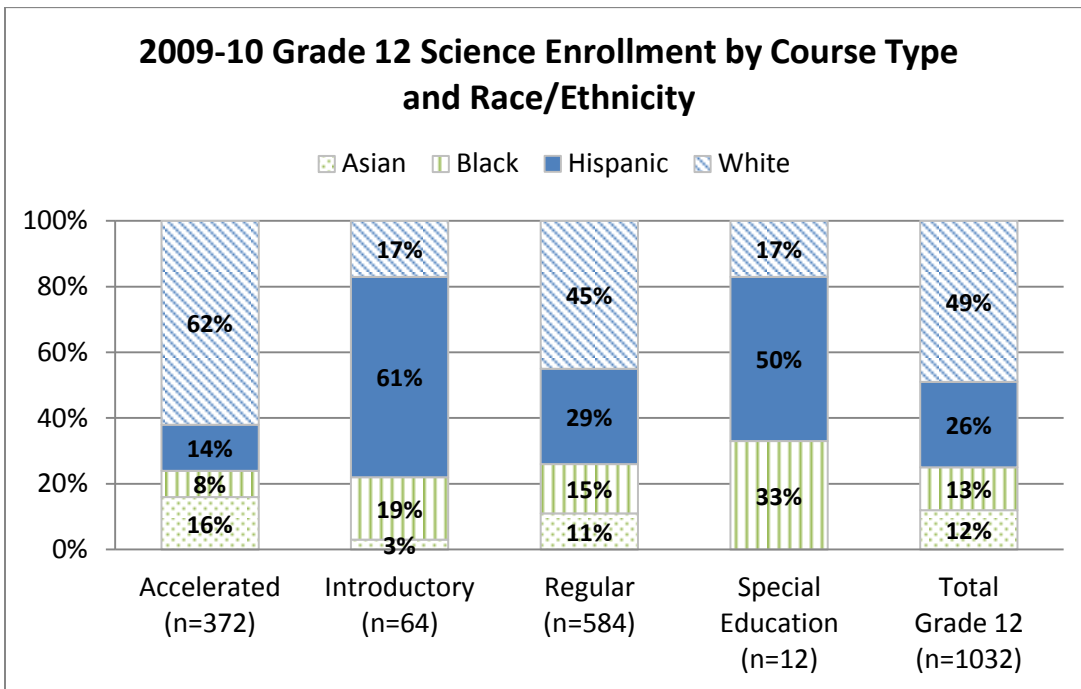
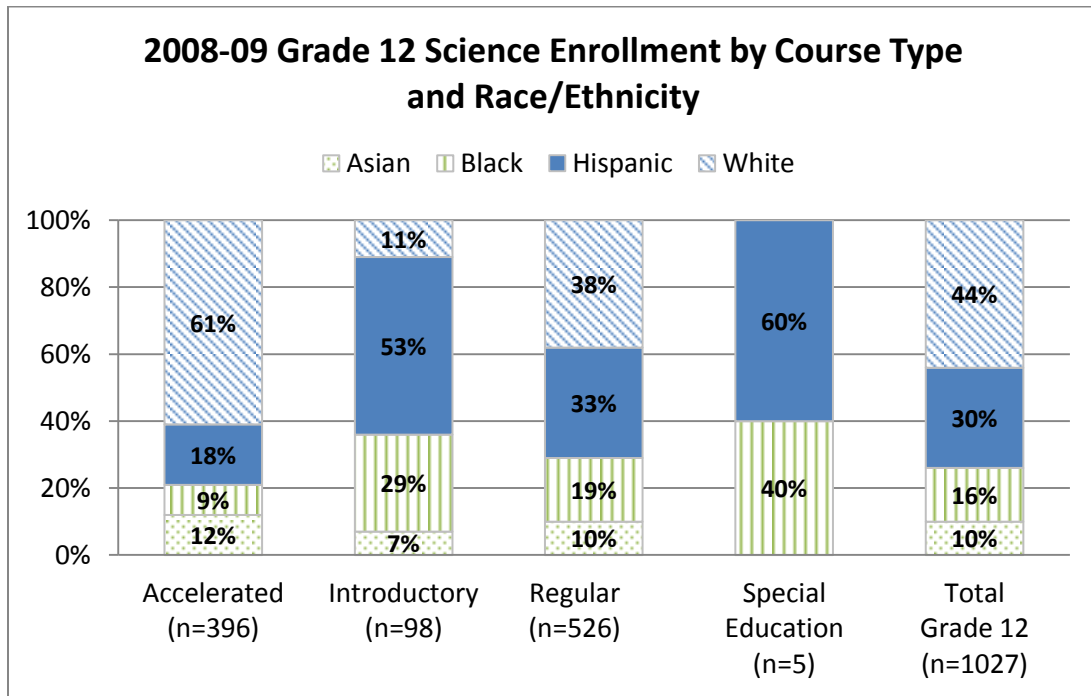


Figure 32: Grade 12 Science Enrollment by Course Type and Race/Ethnicity, 2008–09



Figures 33 through 37 show grade 12 Science enrollment data by course type and gender for each of the last five school years. Figures 34 and 35 do not contain special education enrollment data because less than five grade 12 students classified as SWD were enrolled in special education Science courses those years.

Figure 33: Grade 12 Science Enrollment by Course Type and Gender, 2012–13

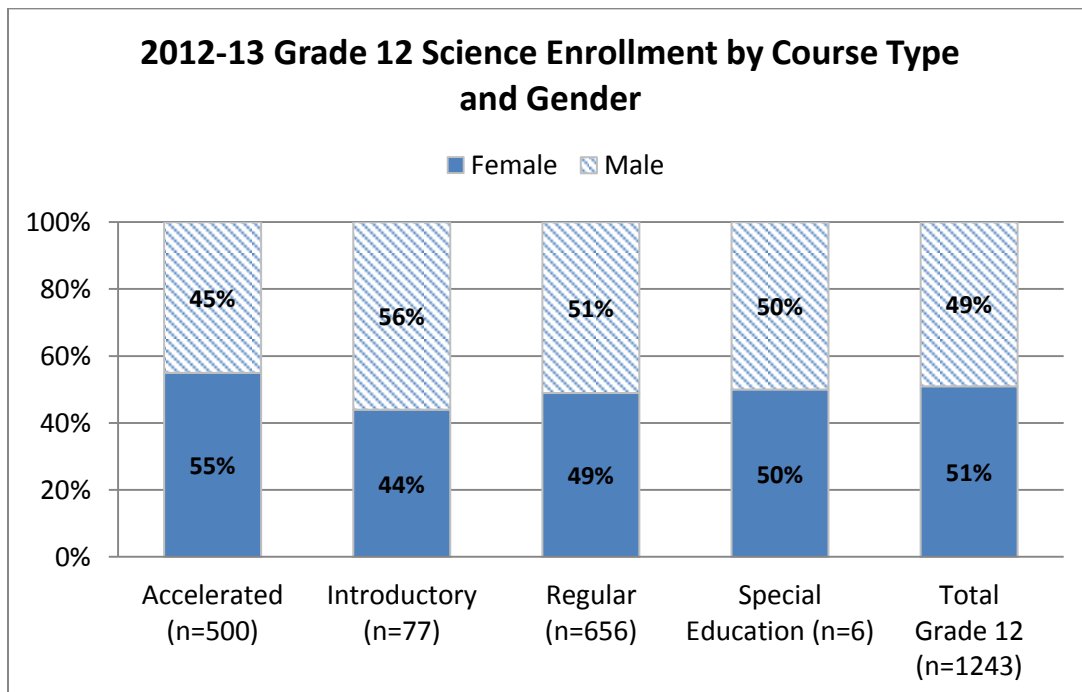


Figure 34: Grade 12 Science Enrollment by Course Type and Gender, 2011–12

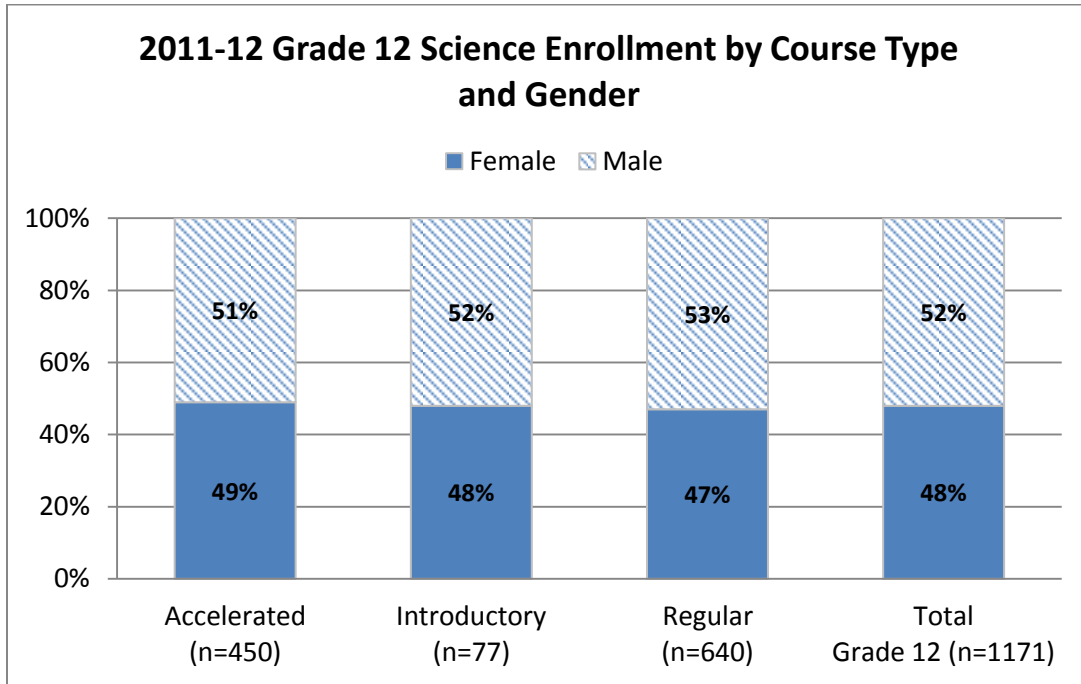


Figure 35: Grade 12 Science Enrollment by Course Type and Gender, 2010–11

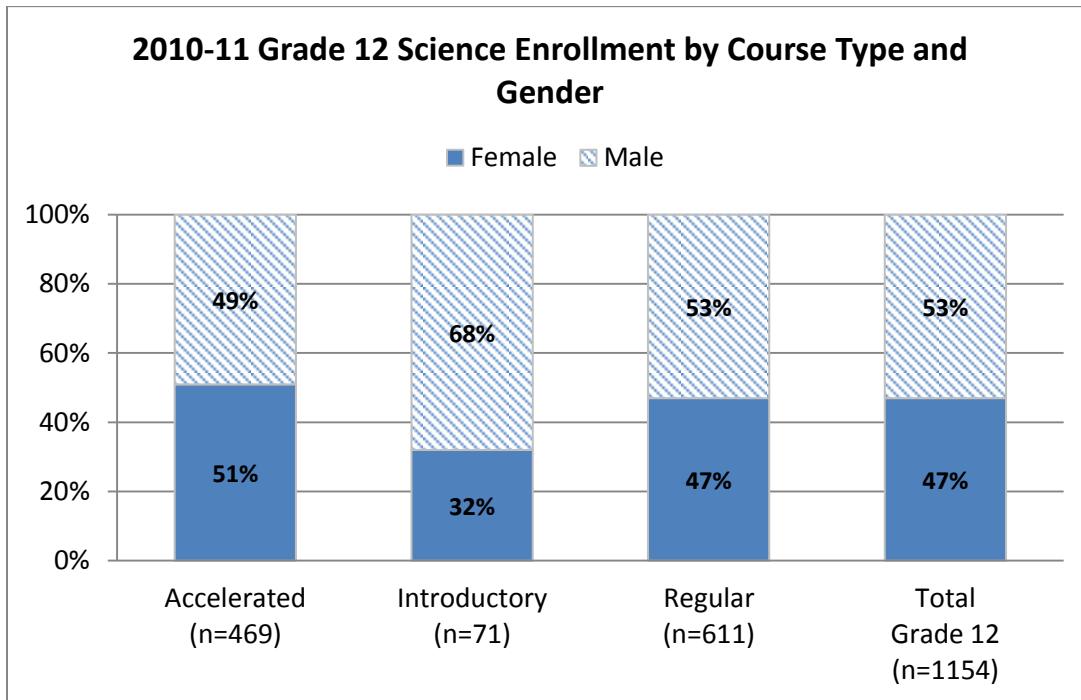


Figure 36: Grade 12 Science Enrollment by Course Type and Gender, 2009–10

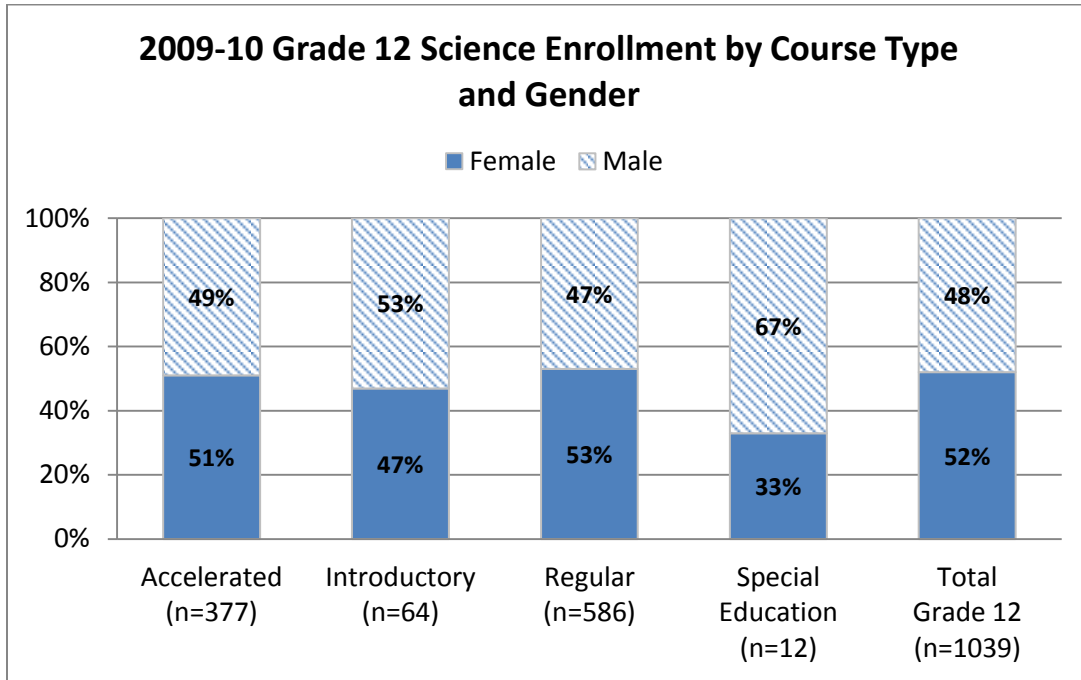
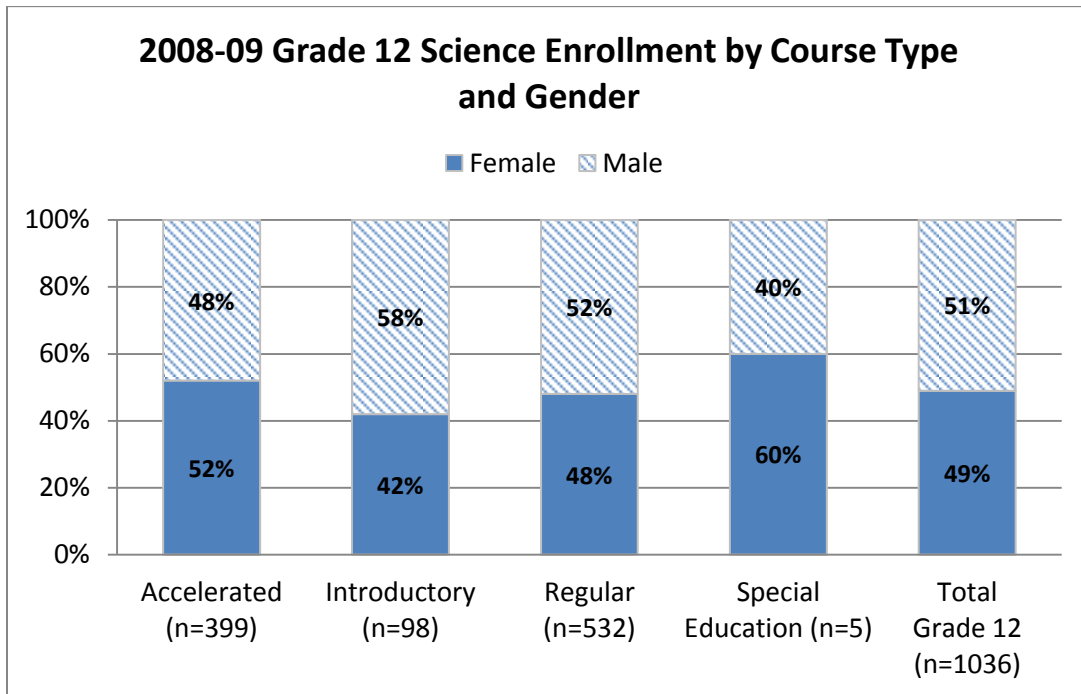


Figure 37: Grade 12 Science Enrollment by Course Type and Gender, 2008–09



Figures 38 through 42 show grade 12 Science enrollment data by course type and economic status for each of the last five school years. Figures 39 and 40 do not special education enrollment data because less than five grade 12 students classified as SWD were enrolled in special education Science courses those years.

Figure 38: Grade 12 Science Enrollment by Course Type and Economic Status, 2012–13

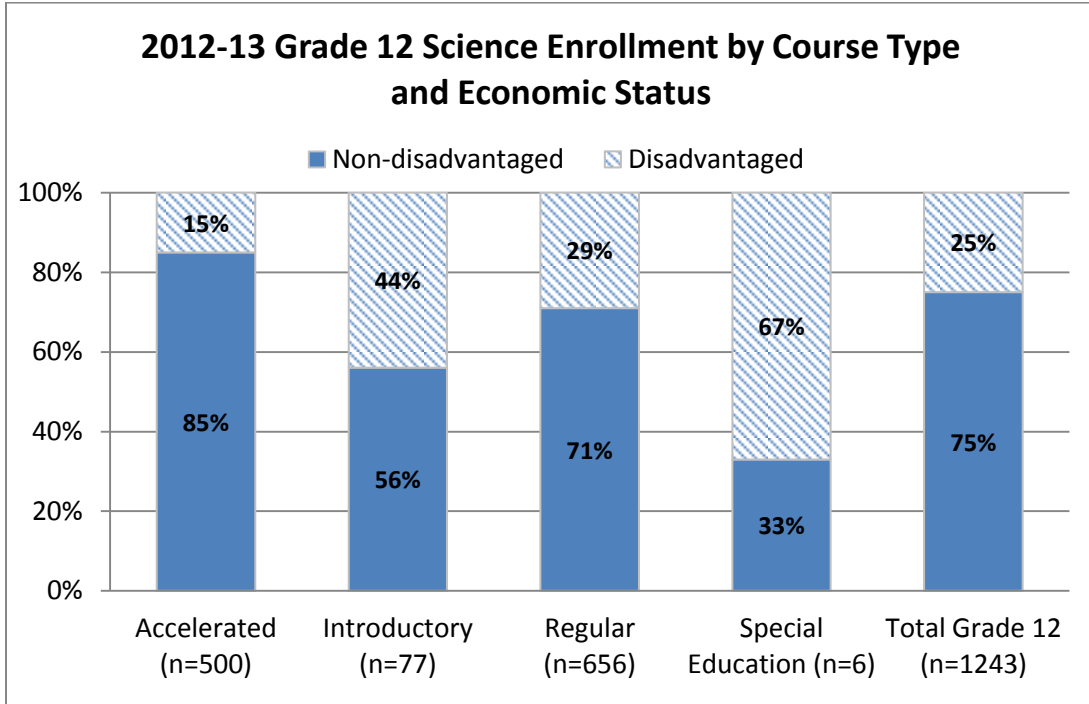


Figure 39: Grade 12 Science Enrollment by Course Type and Economic Status, 2011–12

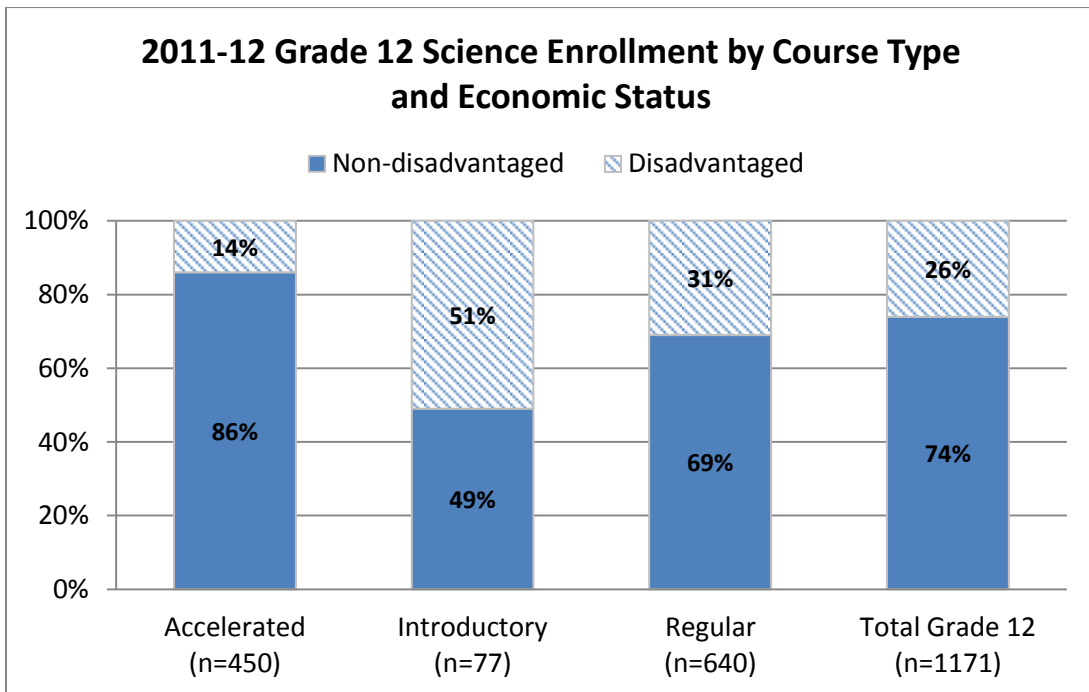


Figure 40: Grade 12 Science Enrollment by Course Type and Economic Status, 2010–11

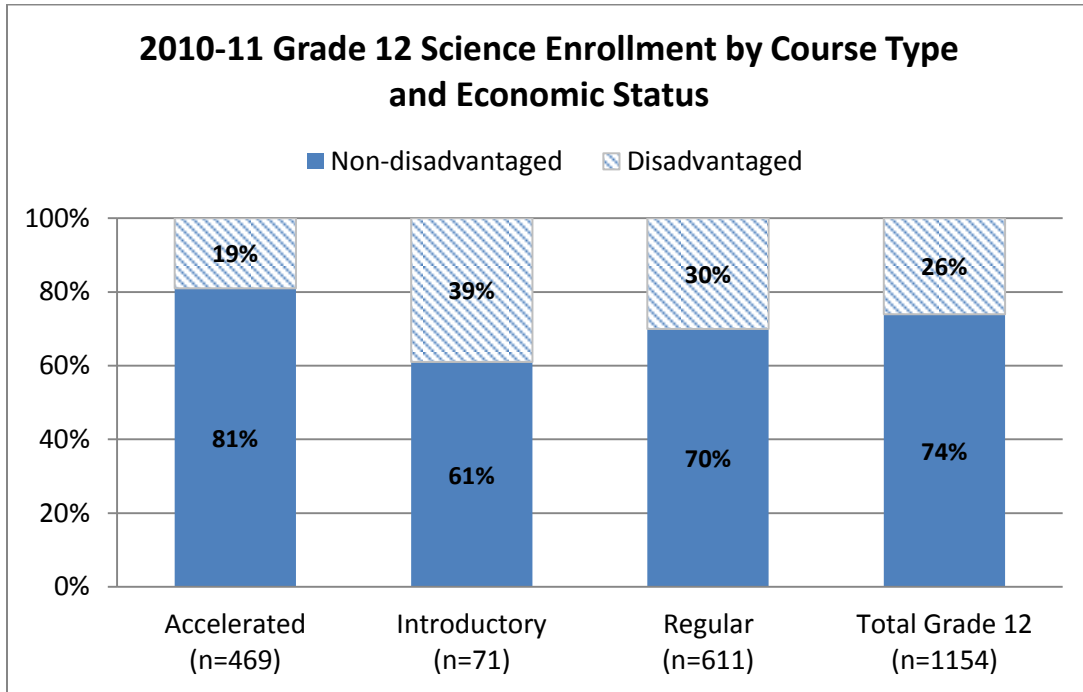


Figure 41: Grade 12 Science Enrollment by Course Type and Economic Status, 2009–10

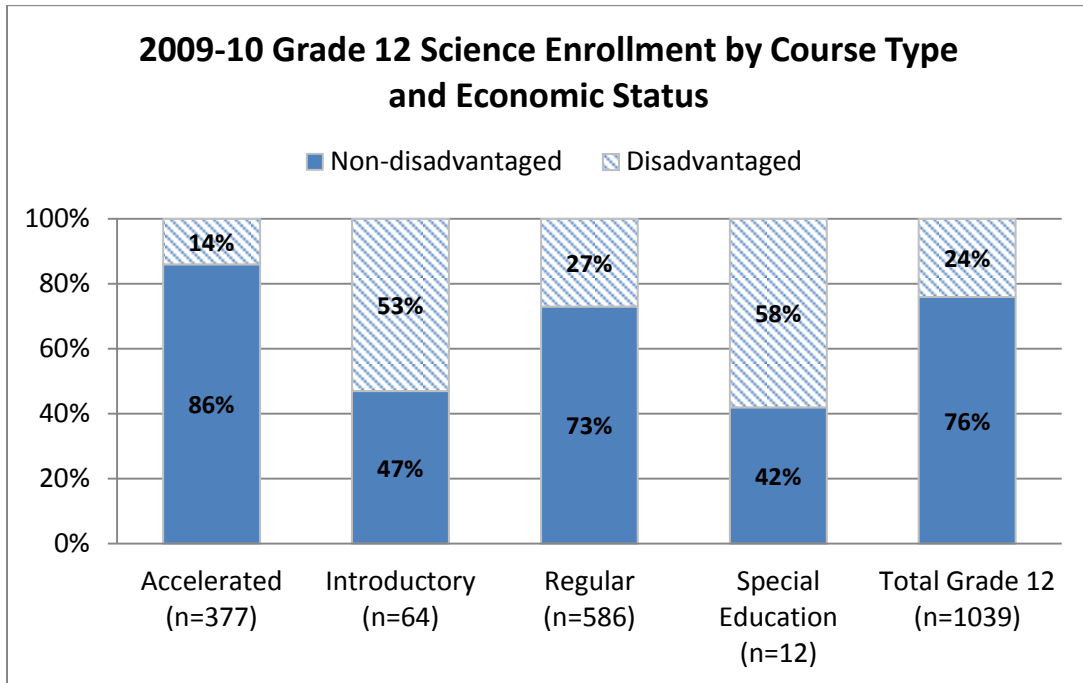
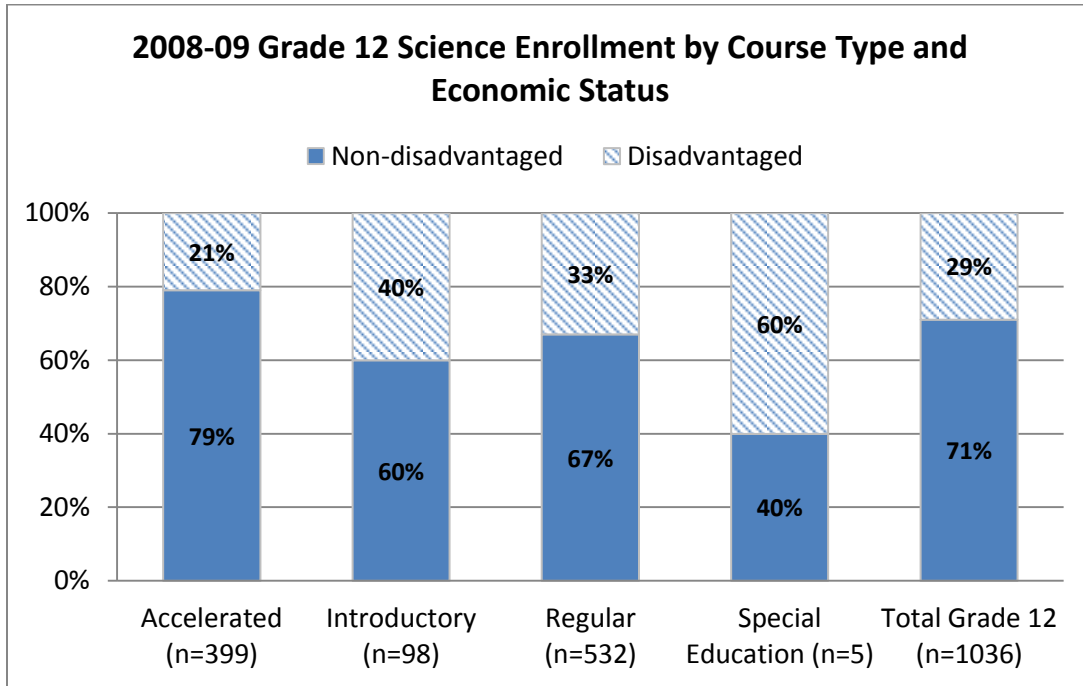


Figure 42: Grade 12 Science Enrollment by Course Type and Economic Status, 2008–09



Figures 43 through 47 show grade 12 Science enrollment data by course type and limited English proficiency (LEP) status for each of the last five school years. Figures 44 and 45 do not contain special education enrollment data because less than five grade 12 LEP students were enrolled in special education Science courses those years.

Figure 43: Grade 12 Science Enrollment by Course Type and LEP Status, 2012–13

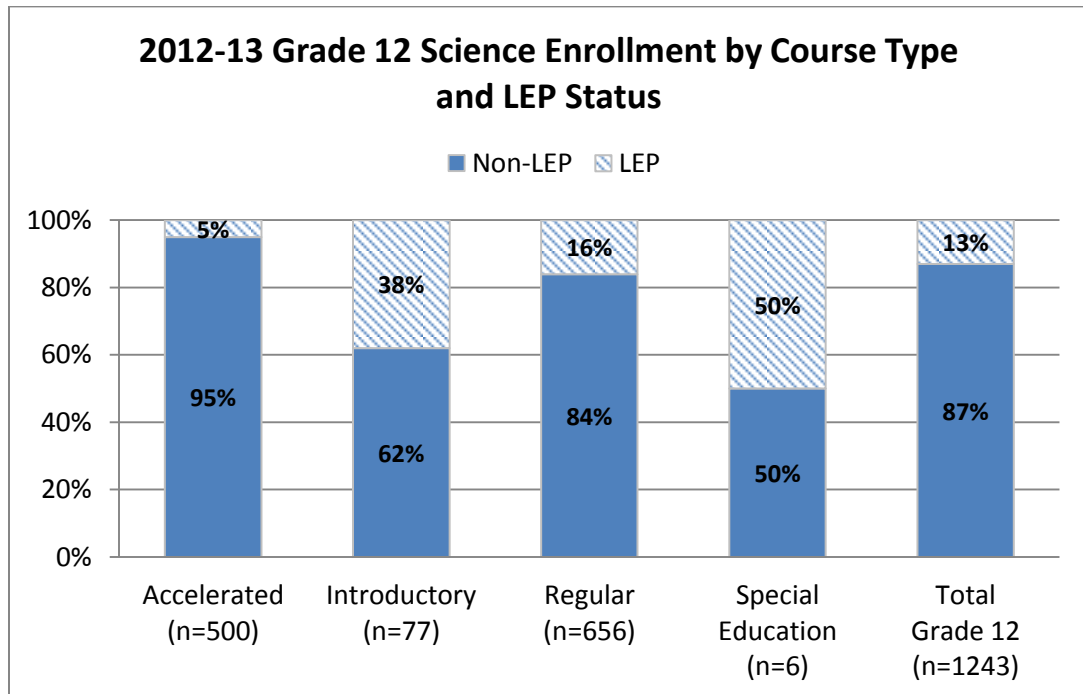


Figure 44: Grade 12 Science Enrollment by Course Type and LEP Status, 2011–12

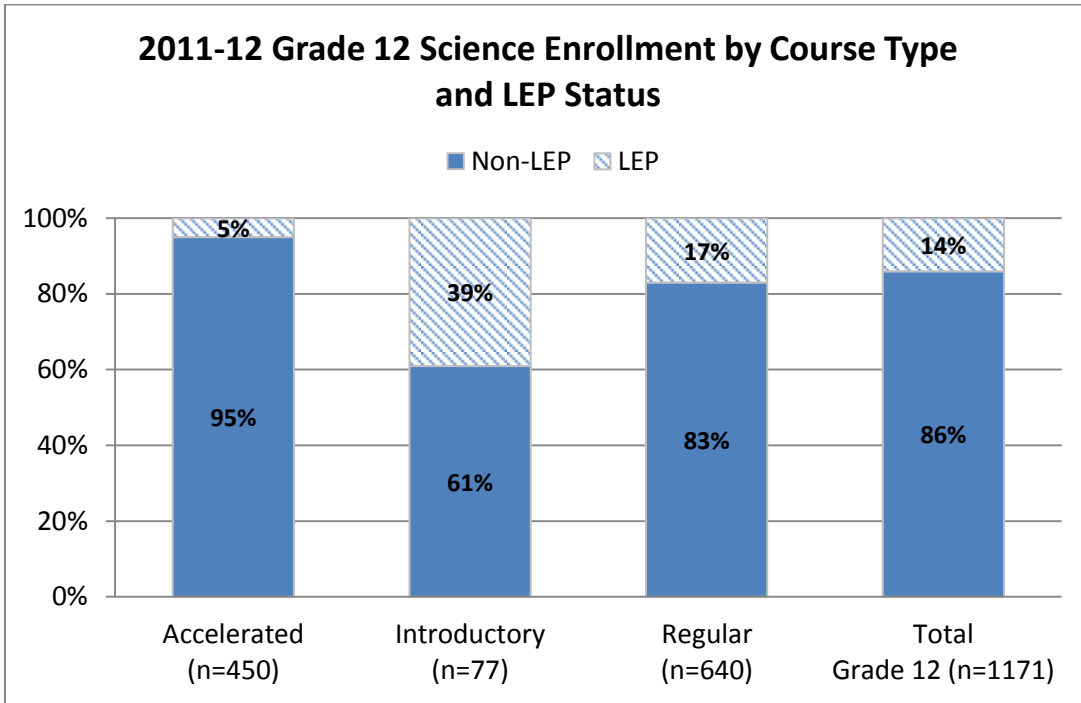


Figure 45: Grade 12 Science Enrollment by Course Type and LEP Status, 2010–11

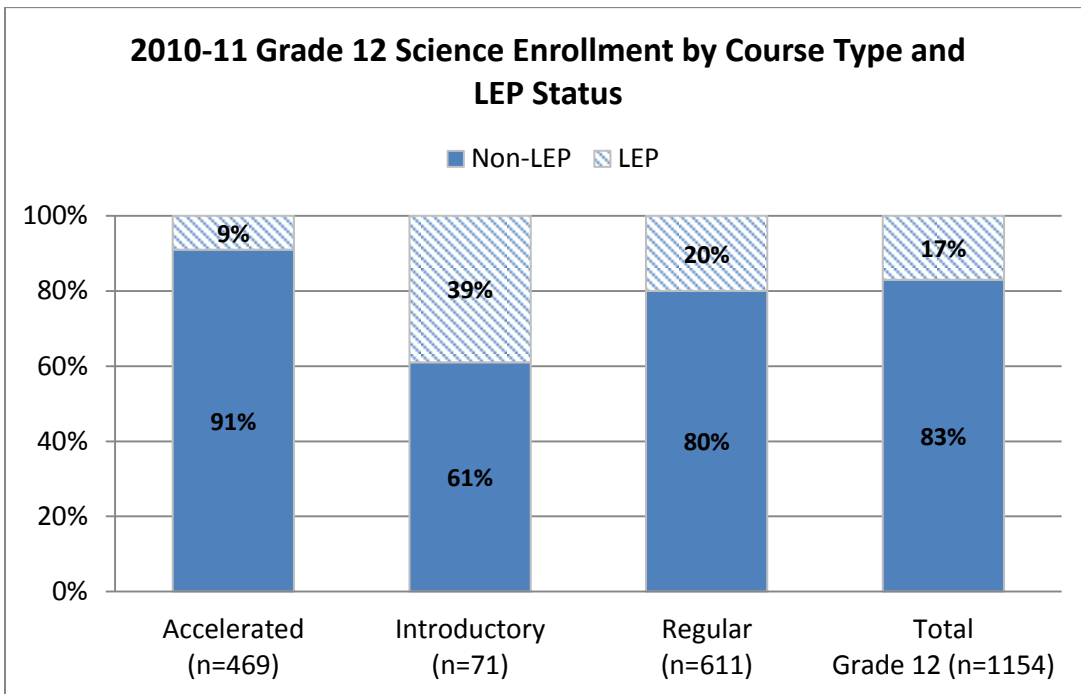


Figure 46: Grade 12 Science Enrollment by Course Type and LEP Status, 2009–10

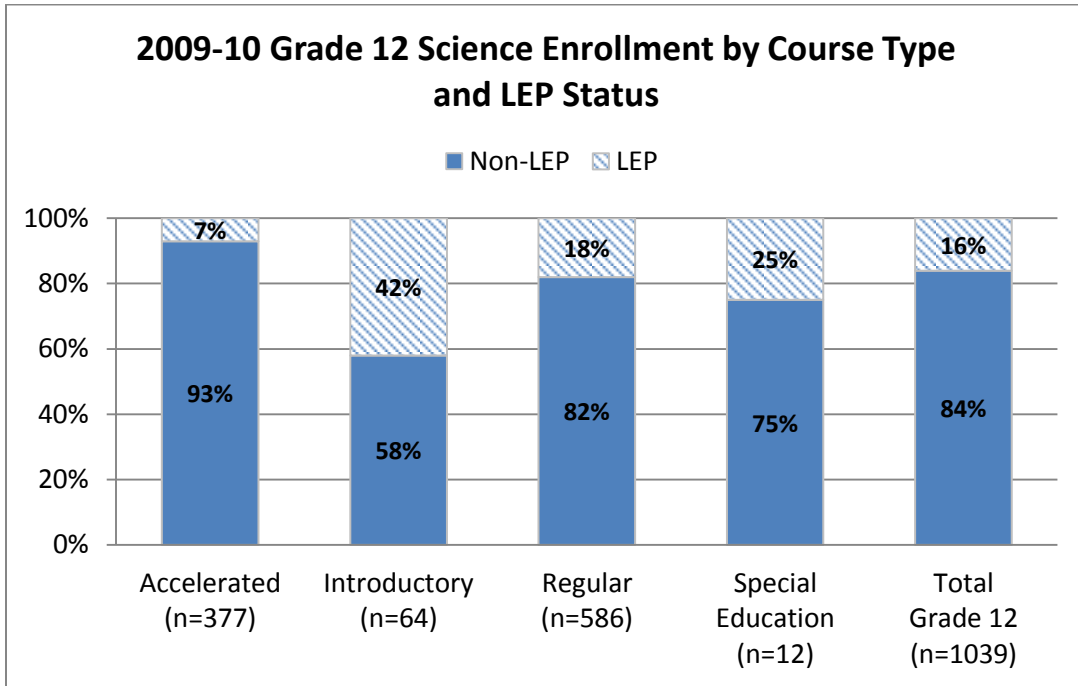
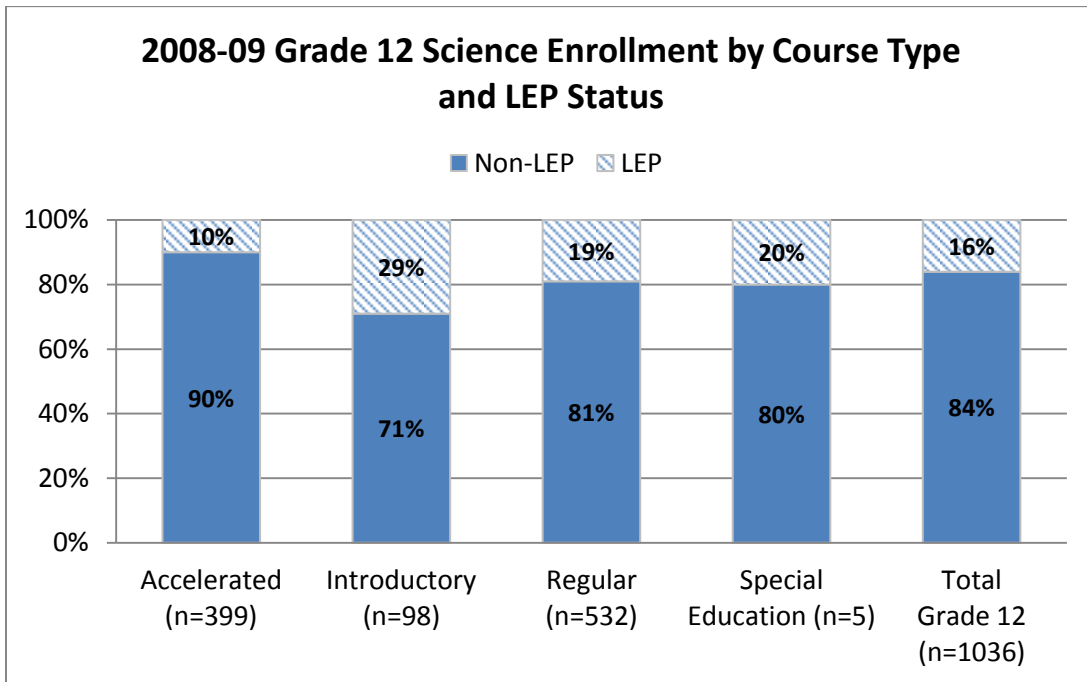


Figure 47: Grade 12 Science Enrollment by Course Type and LEP Status, 2008–09



Figures 48 through 52 show grade 12 Science enrollment data by course type and disability status for each of the last five school years. Figures 49 and 50 do not contain special education enrollment data because less than five grade 12 students classified as SWD were enrolled in special education Science courses those years.

Figure 48: Grade 12 Science Enrollment by Course Type and Disability Status, 2012–13

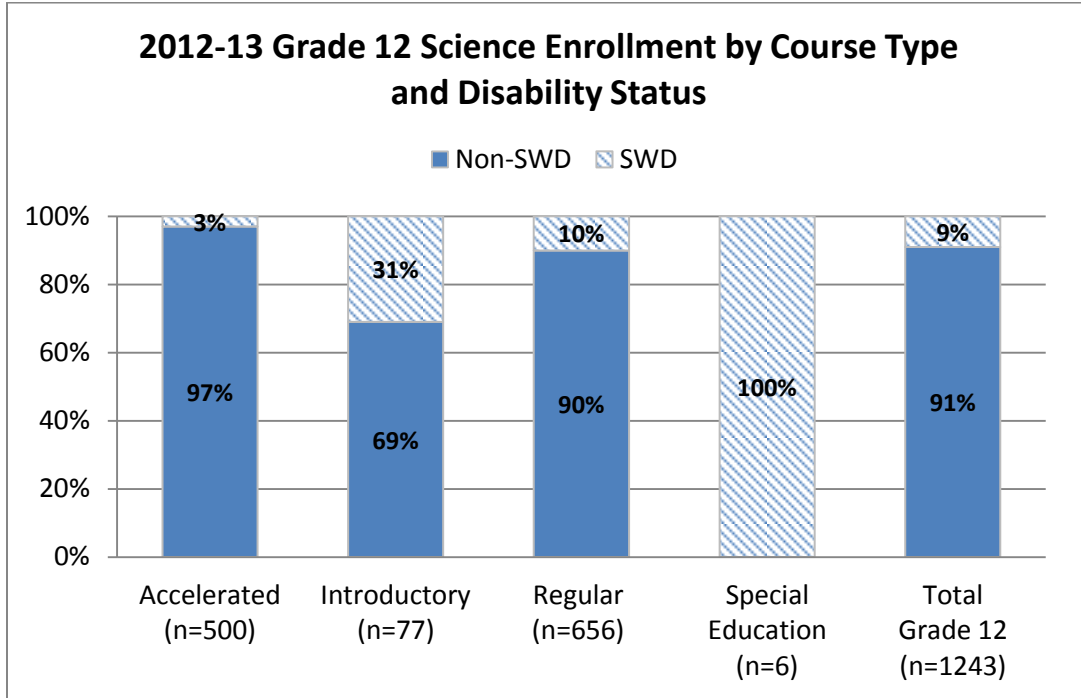


Figure 49: Grade 12 Science Enrollment by Course Type and Disability Status, 2011–12

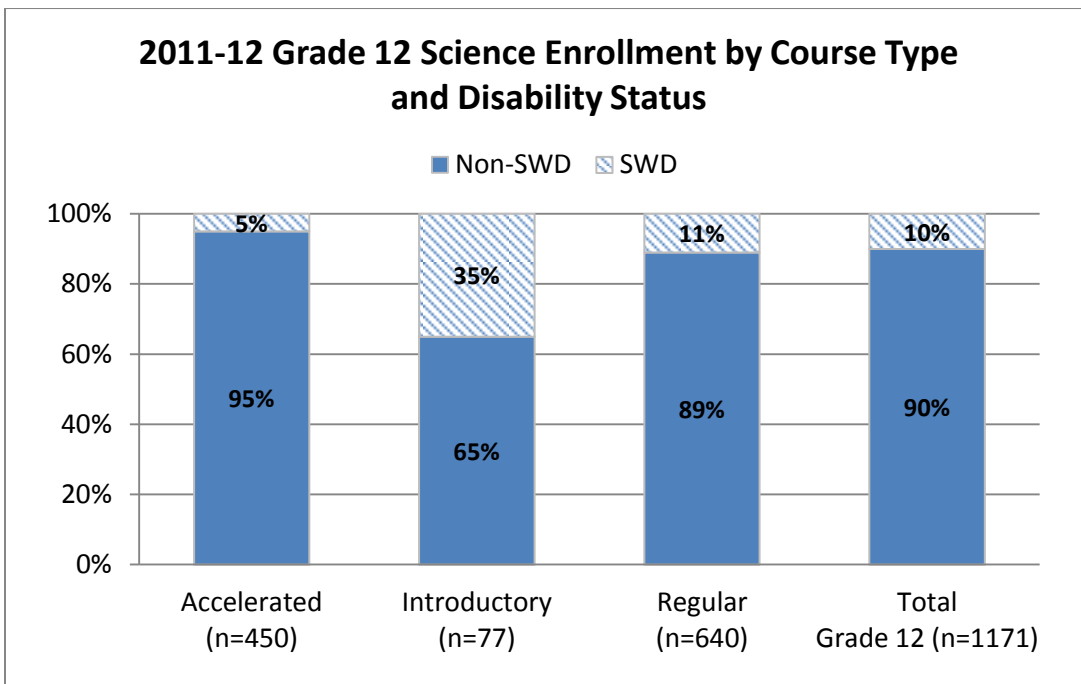


Figure 50: Grade 12 Science Enrollment by Course Type and Disability Status, 2010–11

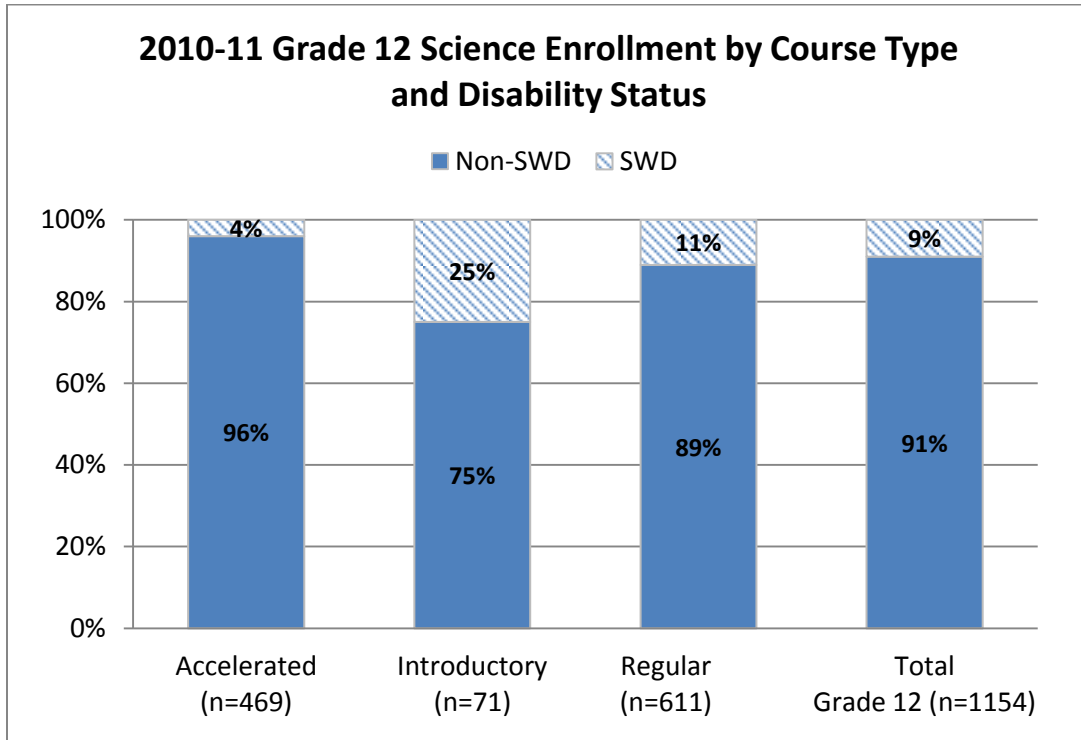


Figure 51: Grade 12 Science Enrollment by Course Type and Disability Status, 2009–10

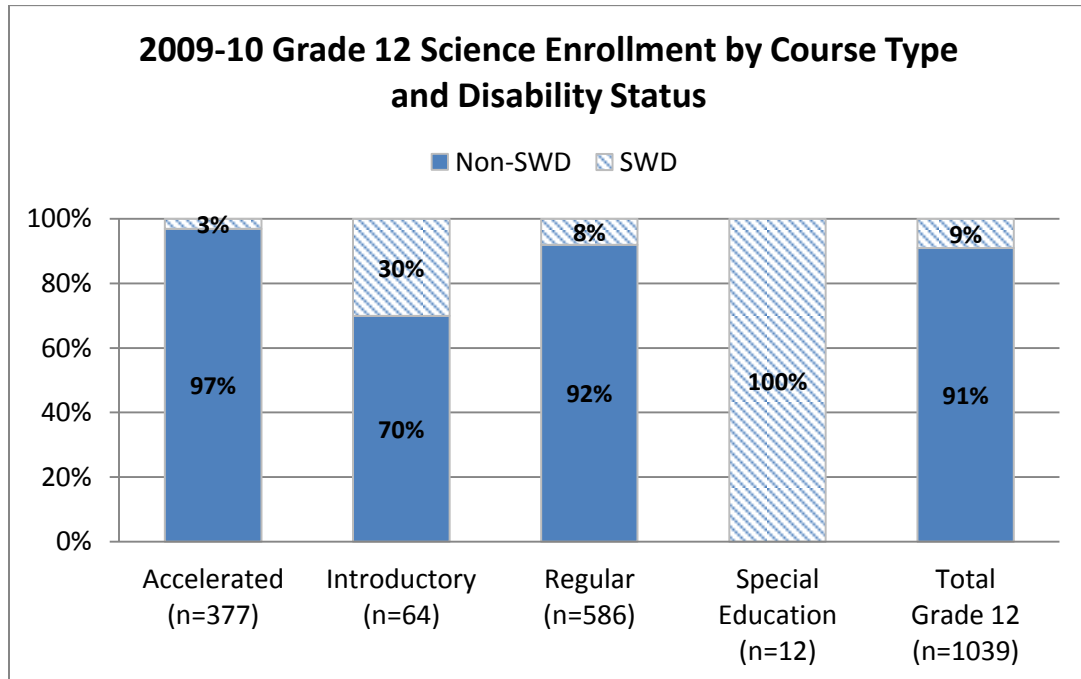
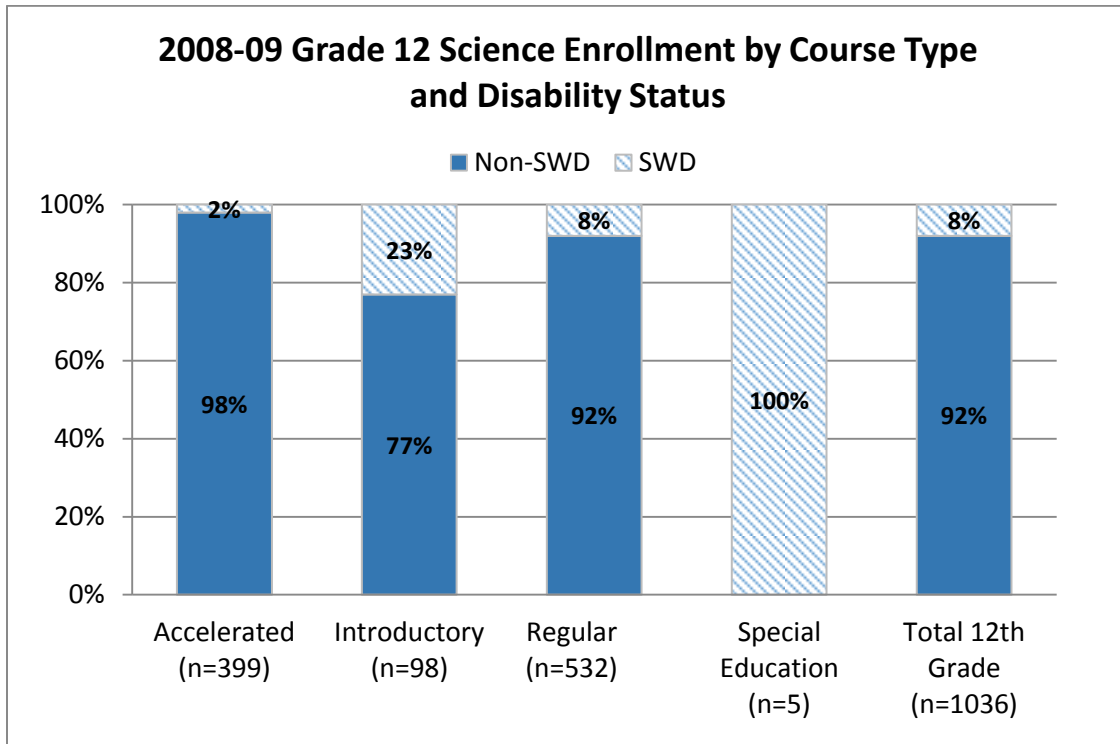


Figure 52: Grade 12 Science Enrollment by Course Type and Disability Status, 2008–09



AP and IB Science Enrollment

This section displays advanced (AP or IB) Science enrollment by course type and within subgroups over five years. Total high school data reflect the number of enrollments in Science classes (students may be enrolled in more than one Science class at a time), not the number of high school students enrolled in Science classes.

The majority of students enrolled in AP Science courses are in 12th grade, while students enrolled in Washington-Lee High School begin IB Science courses in 10th grade.

Figures 53 through 57 show AP Science and IB Science enrollment data by race/ethnicity for each of the last five school years.

Figure 53: AP and IB Science Enrollment by Race/Ethnicity, 2012–13

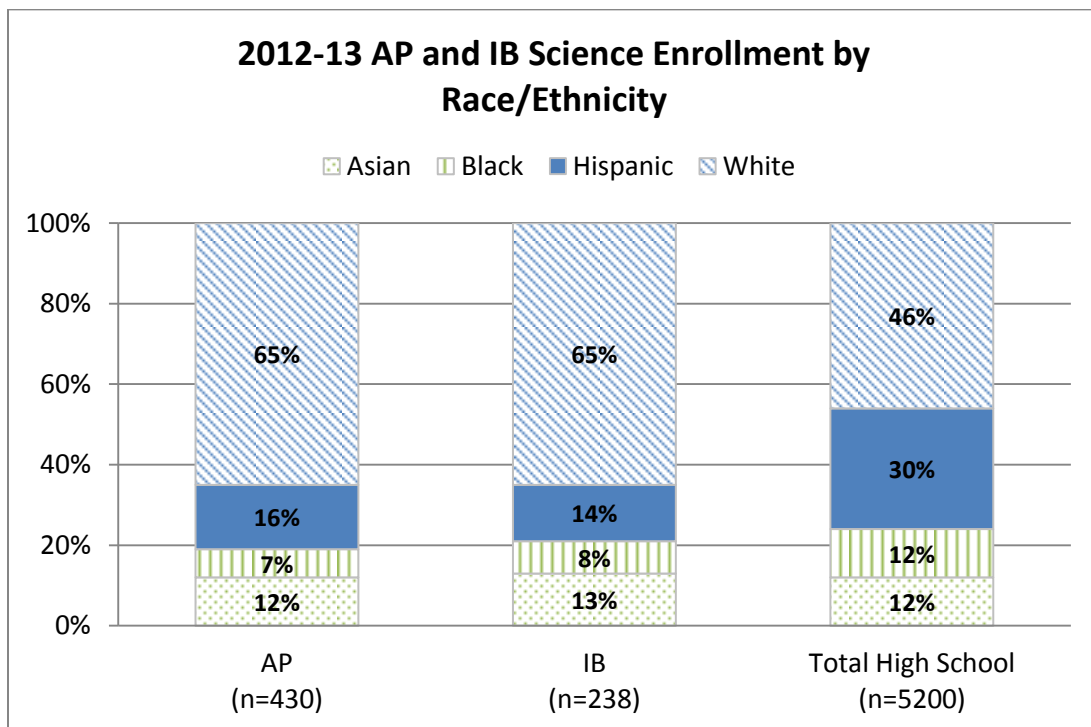


Figure 54: AP and IB Science Enrollment by Race/Ethnicity, 2011–12

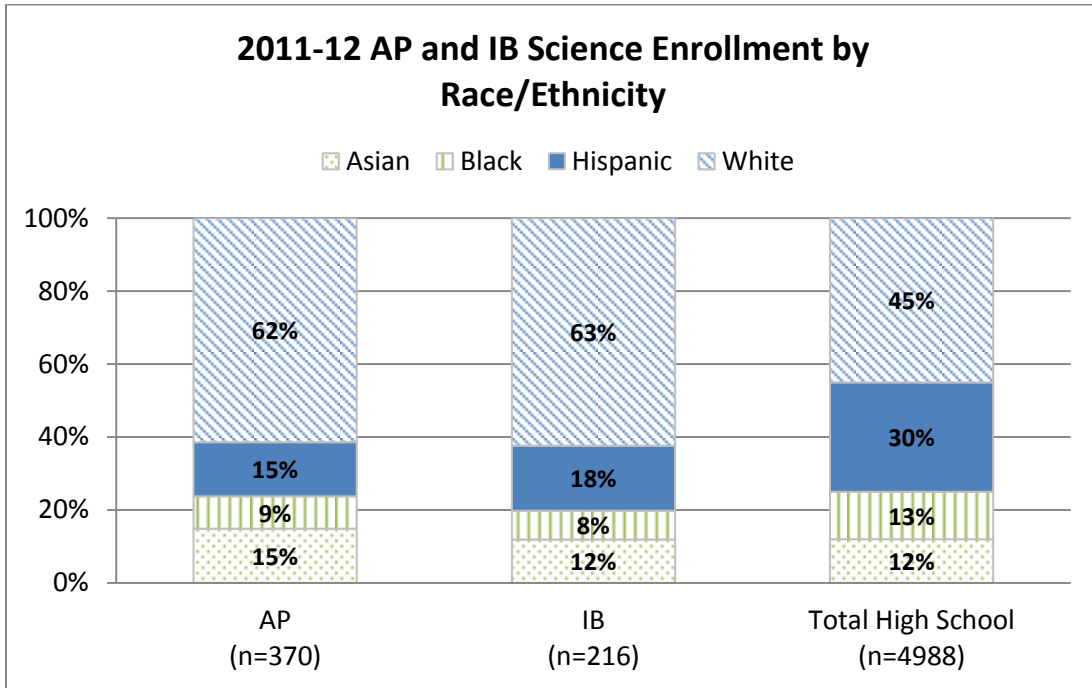


Figure 55: AP and IB Science Enrollment by Race/Ethnicity, 2010–11

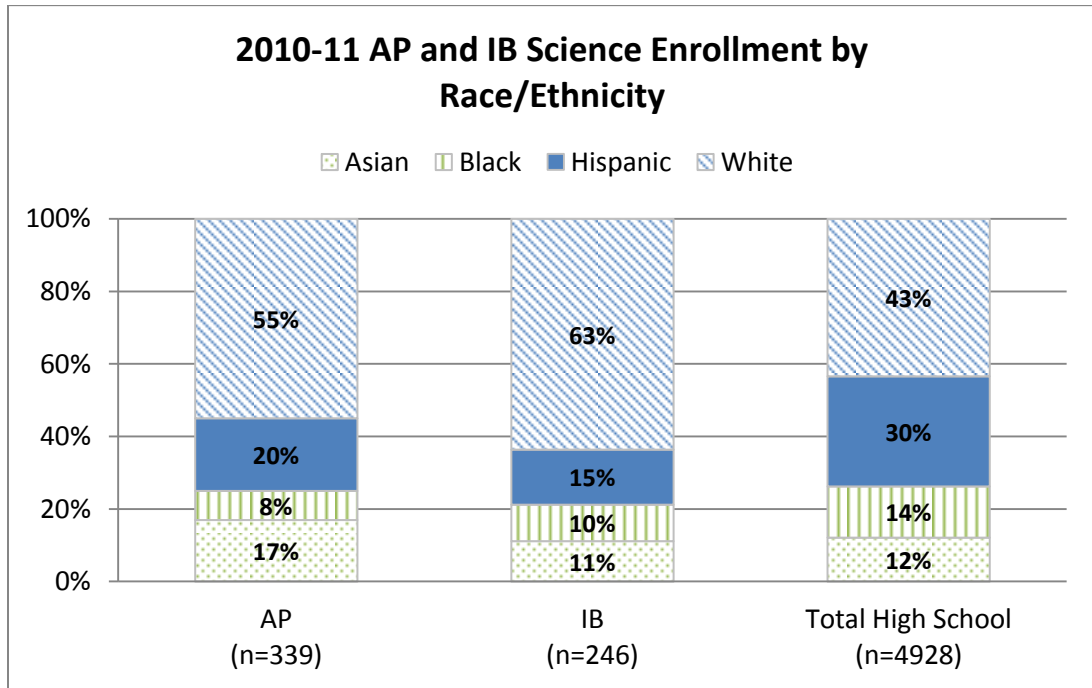


Figure 56: AP and IB Science Enrollment by Race/Ethnicity, 2009–10

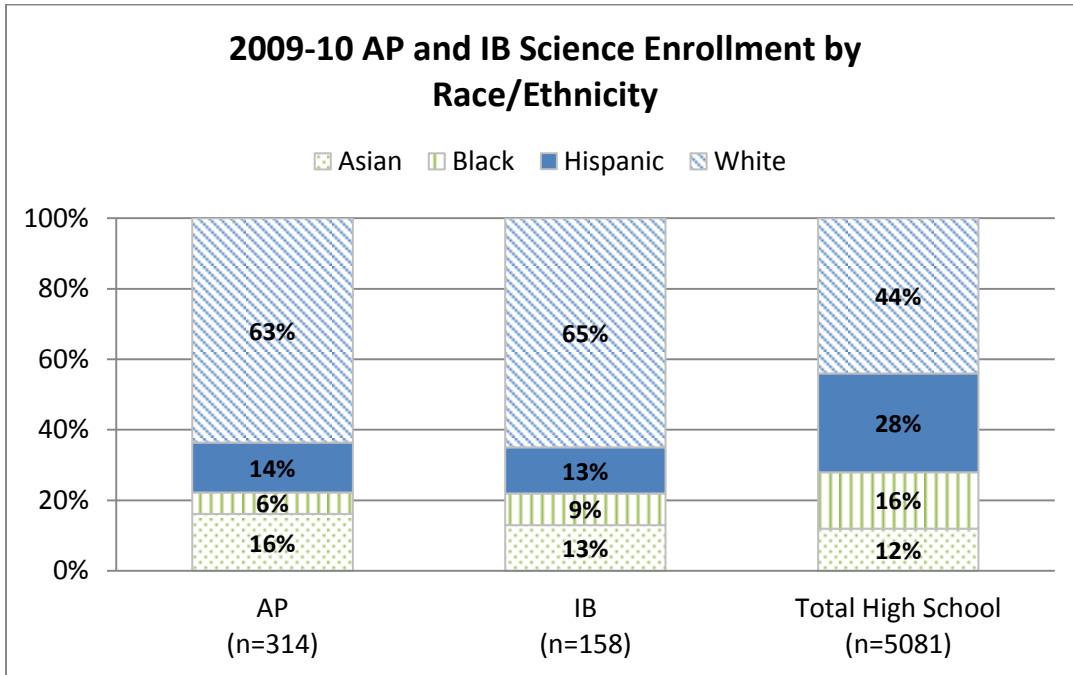
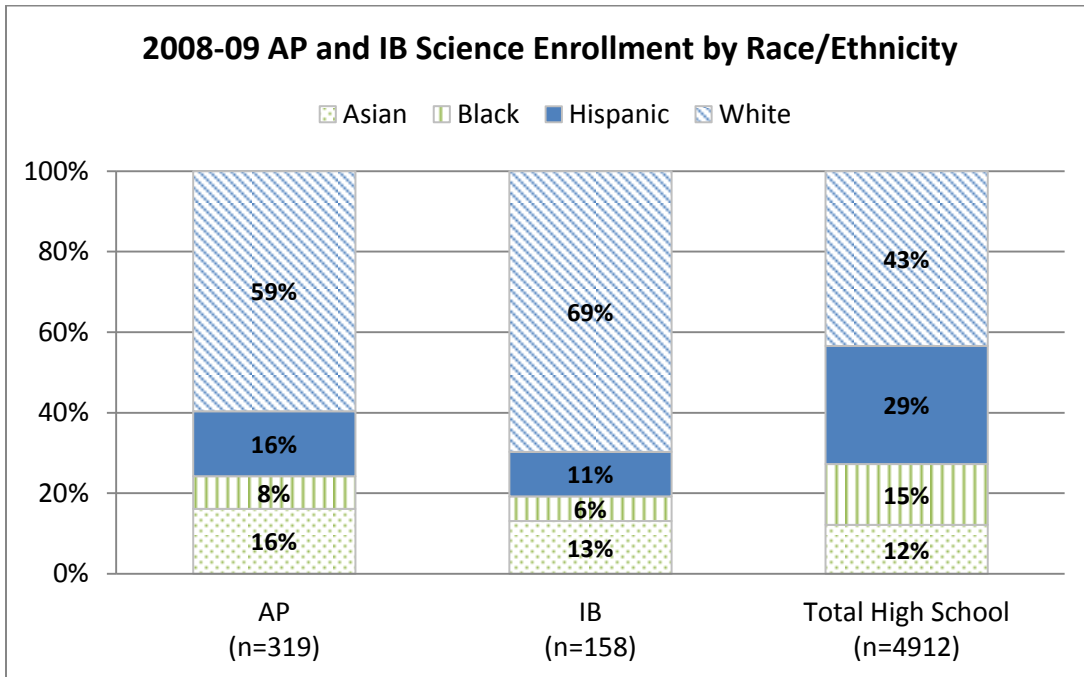


Figure 57: AP and IB Science Enrollment by Race/Ethnicity, 2008–09



Figures 58 through 62 show AP Science and IB Science enrollment data by gender for each of the last five school years.

Figure 58: AP and IB Science Enrollment by Gender, 2012–13

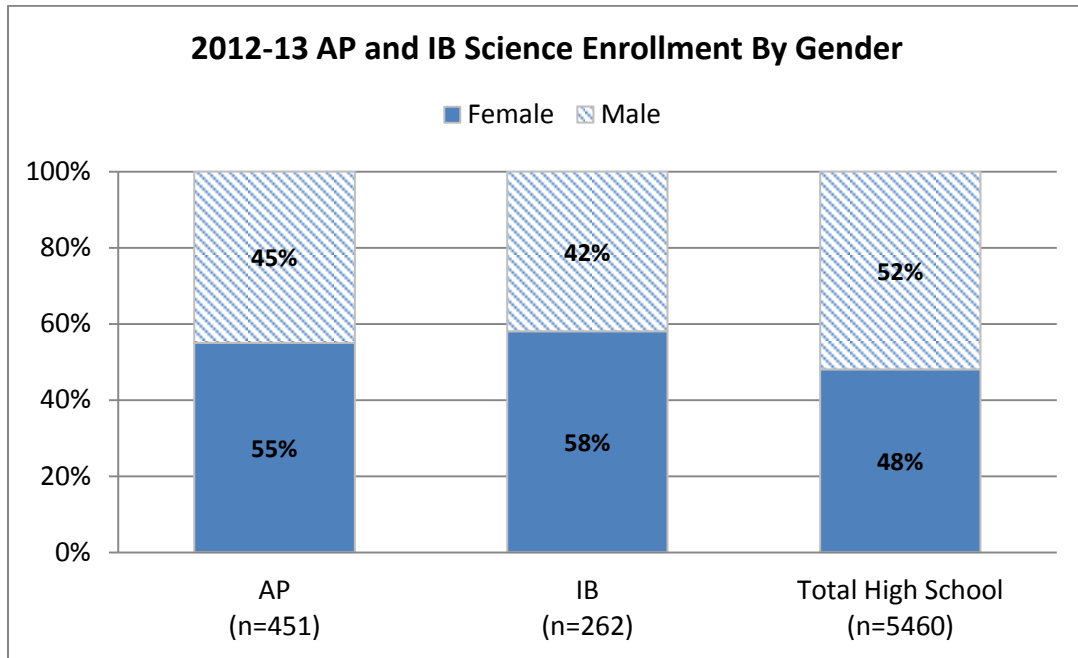


Figure 59: AP and IB Science Enrollment by Gender, 2011–12

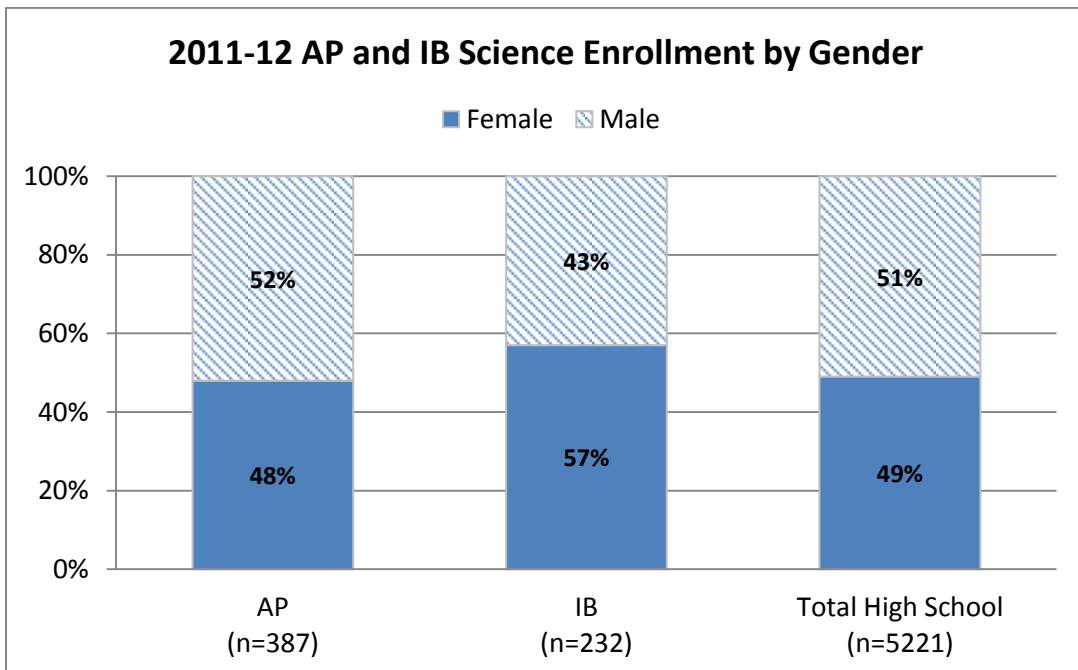


Figure 60: AP and IB Science Enrollment by Gender, 2010–11

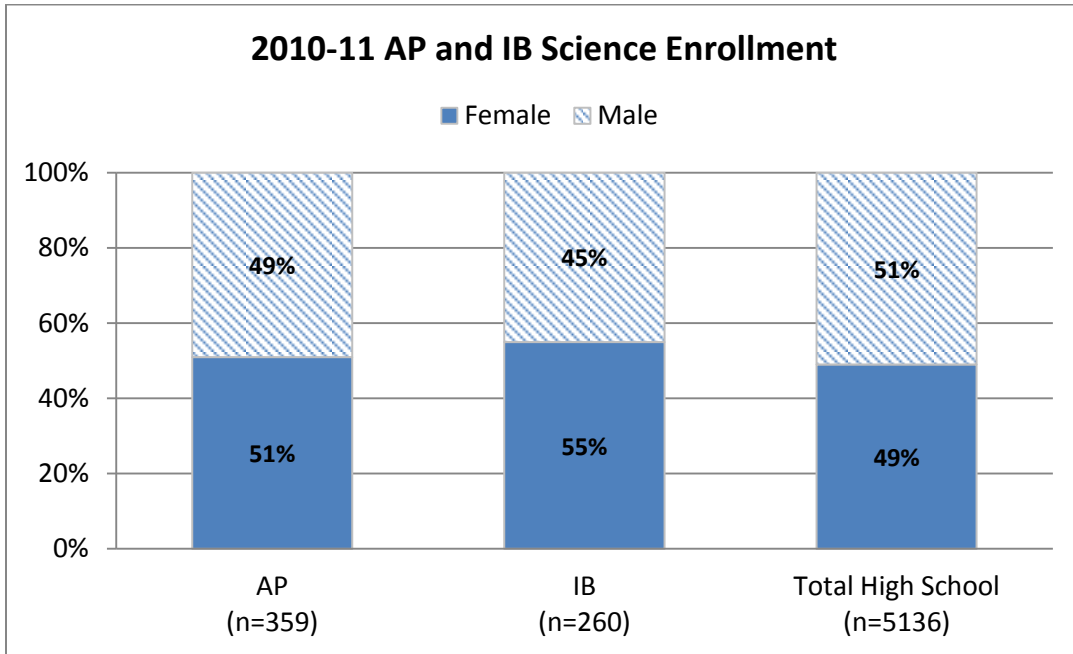


Figure 61: AP and IB Science Enrollment by Gender, 2009–10

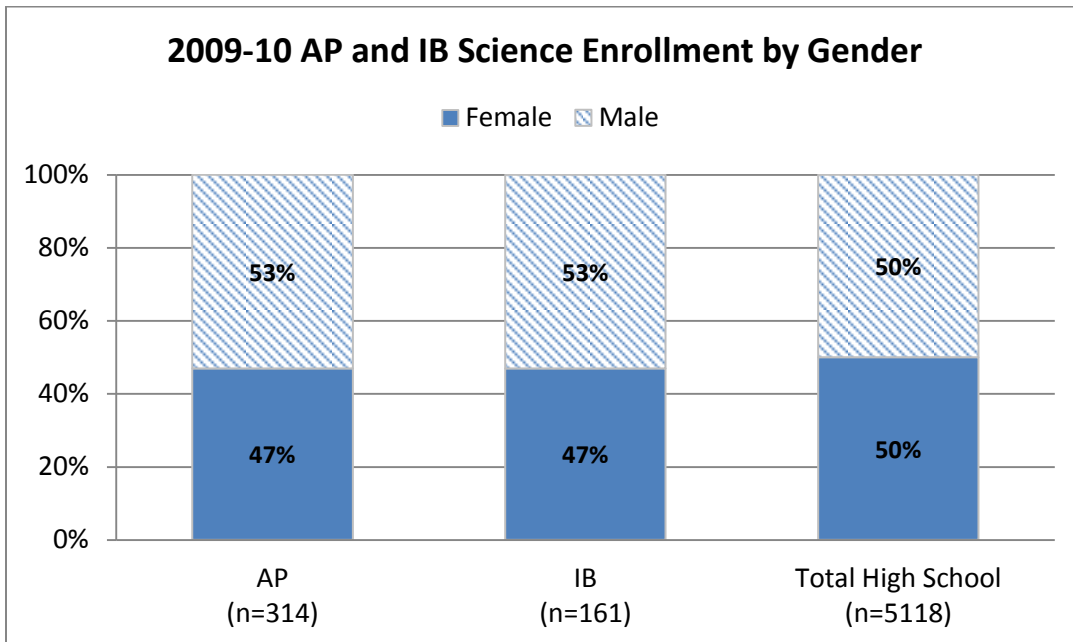
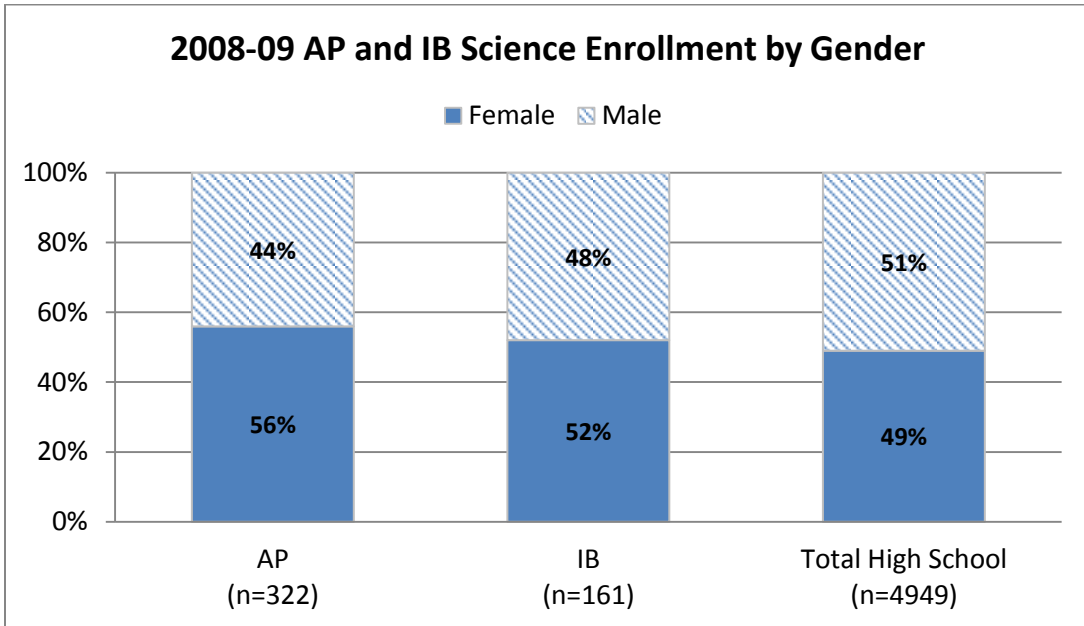


Figure 62: AP and IB Science Enrollment by Gender, 2008–09



Figures 63 through 67 show AP Science and IB Science enrollment data by economic status for each of the last five school years.

Figure 63: AP and IB Science Enrollment by Economic Status, 2012–13

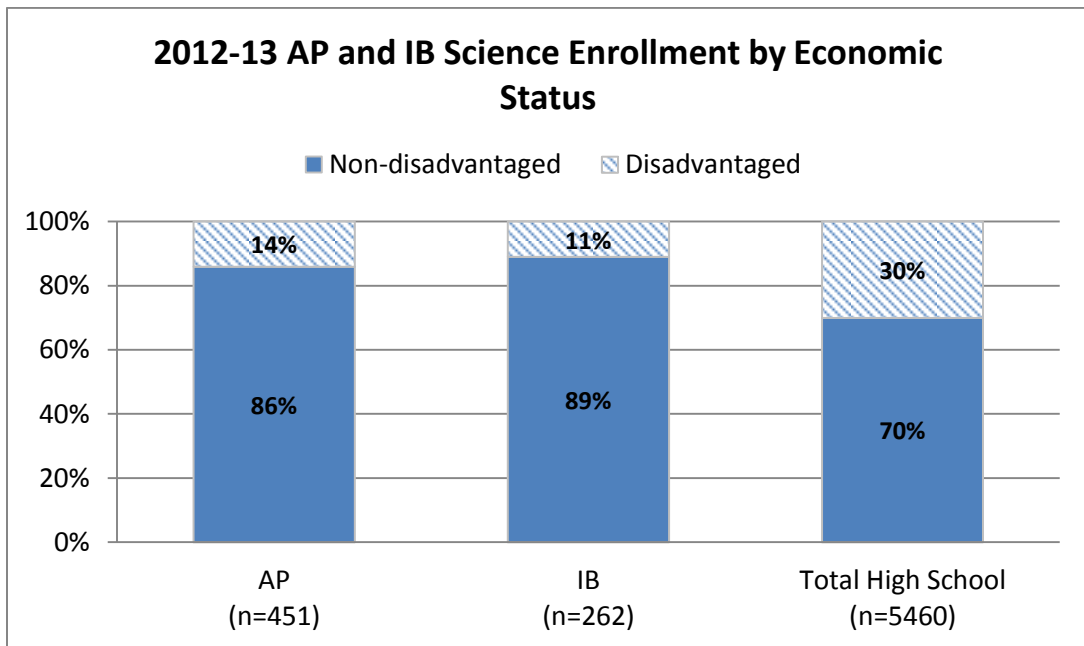


Figure 64: AP and IB Science Enrollment by Economic Status, 2011–12

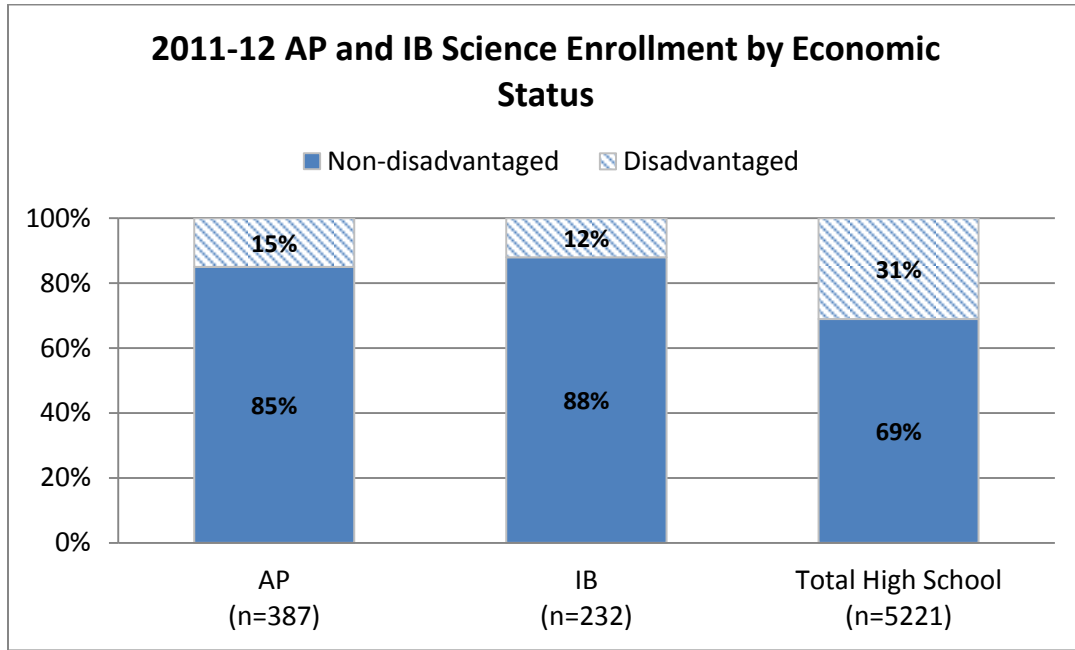


Figure 65: AP and IB Science Enrollment by Economic Status, 2010–11

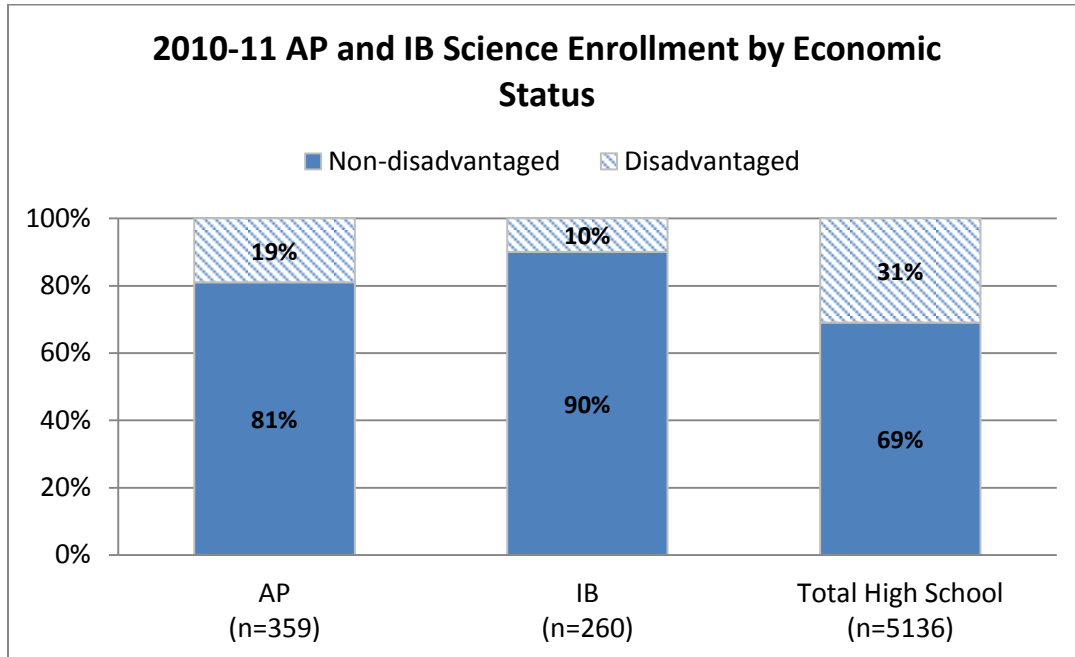


Figure 66: AP and IB Science Enrollment by Economic Status, 2009–10

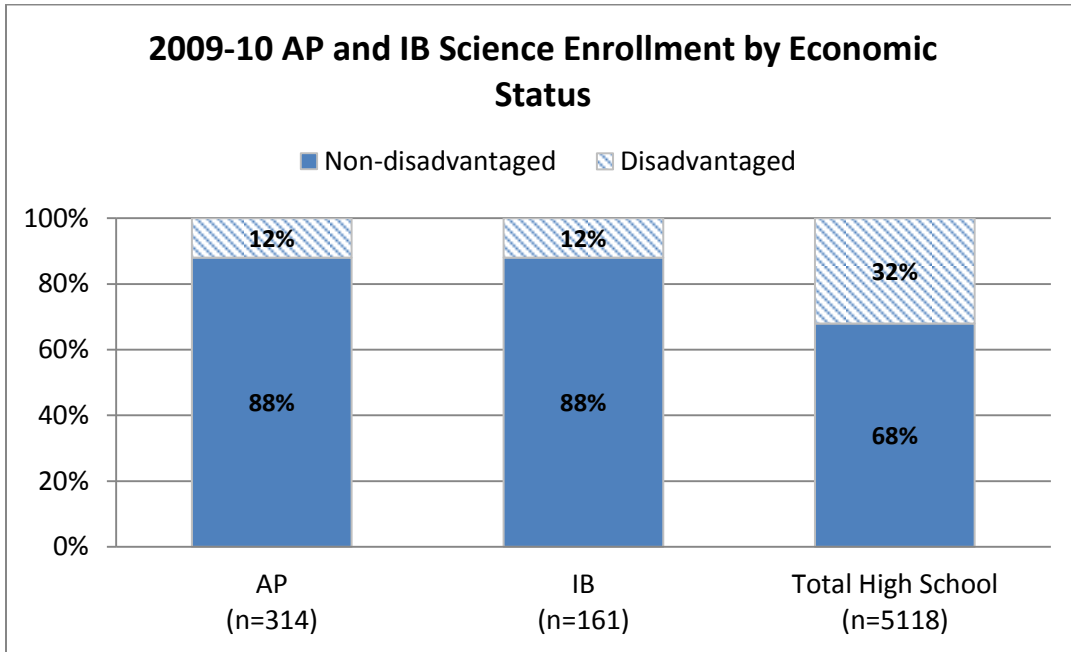
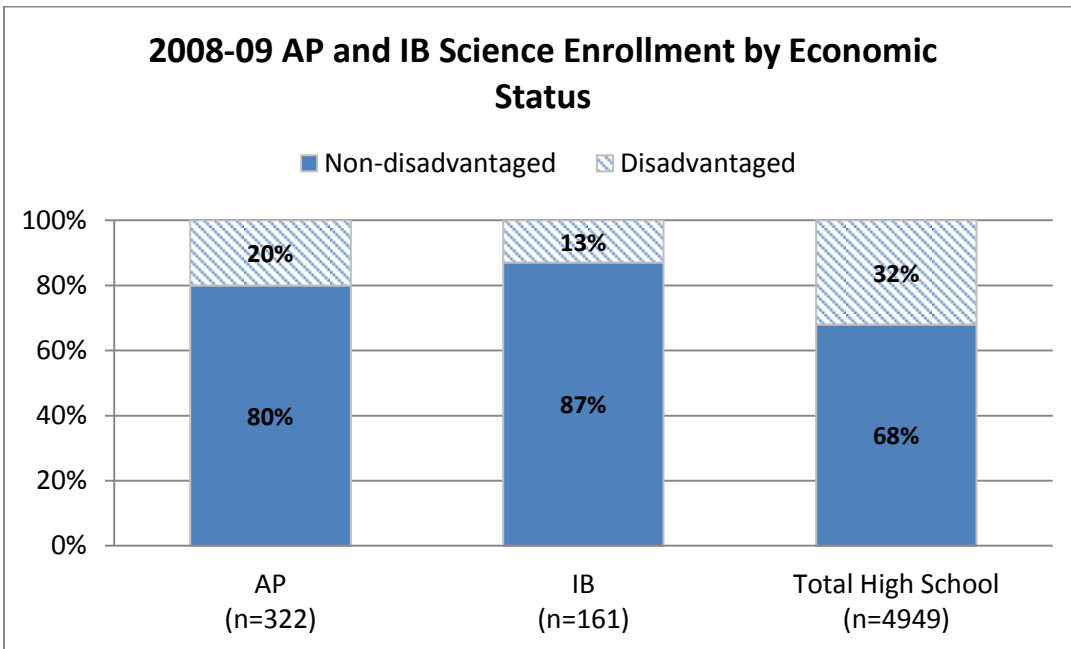


Figure 67: AP and IB Science Enrollment by Economic Status, 2008–09



Figures 68 through 72 show AP Science and IB Science enrollment data by LEP status for each of the last five school years.

Figure 68: AP and IB Science Enrollment by LEP Status, 2012–13

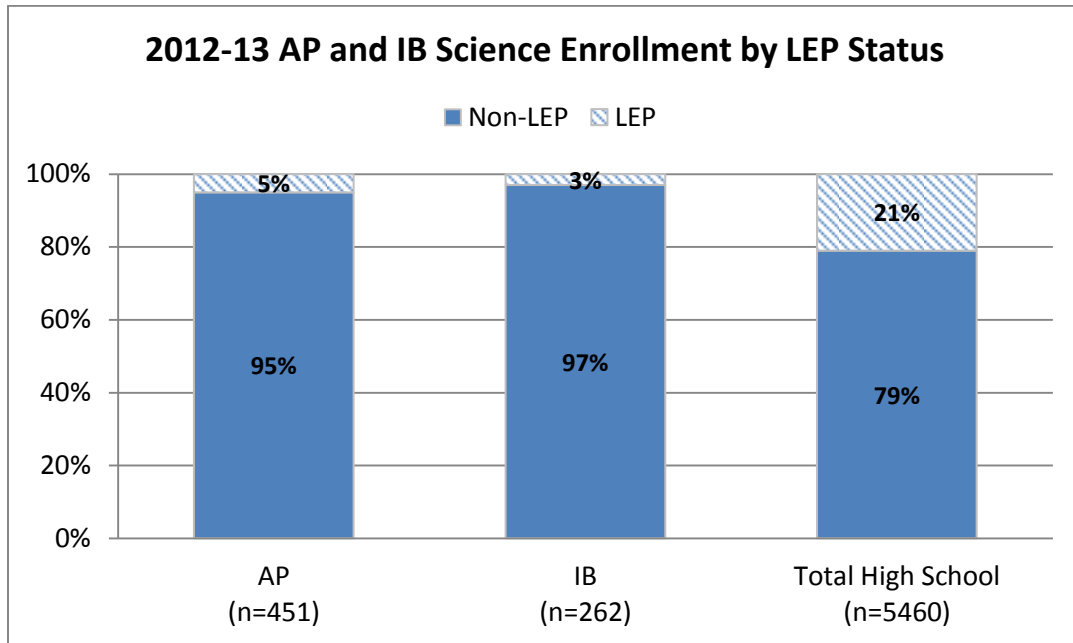


Figure 69: AP and IB Science Enrollment by LEP Status, 2011–12

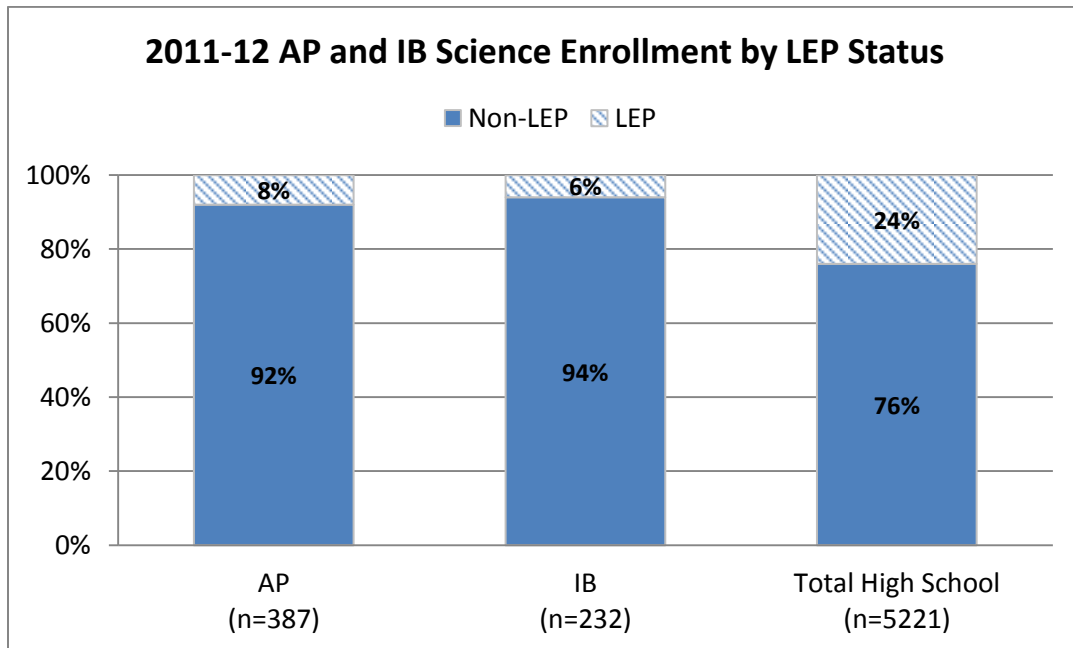


Figure 70: AP and IB Science Enrollment by LEP Status, 2010–11

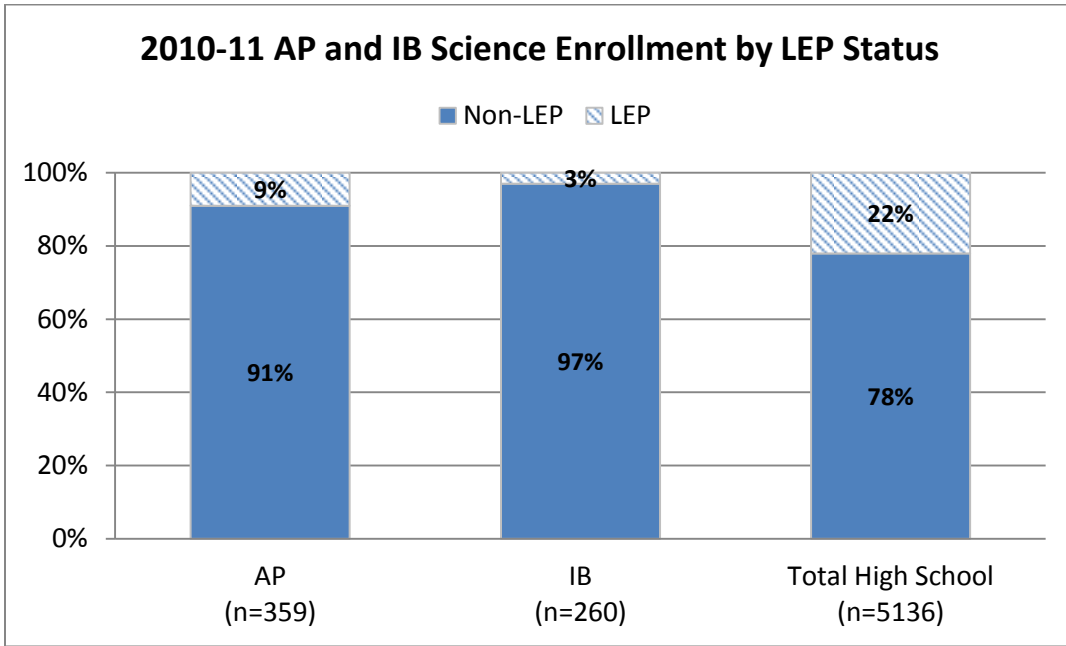


Figure 71: AP and IB Science Enrollment by LEP Status, 2009–10

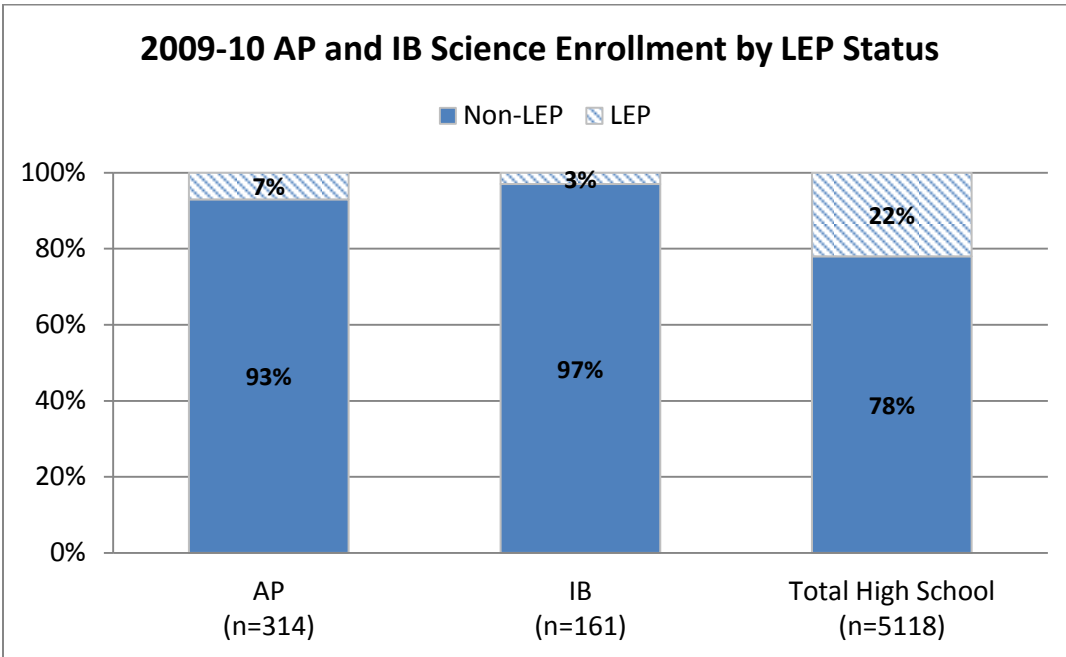
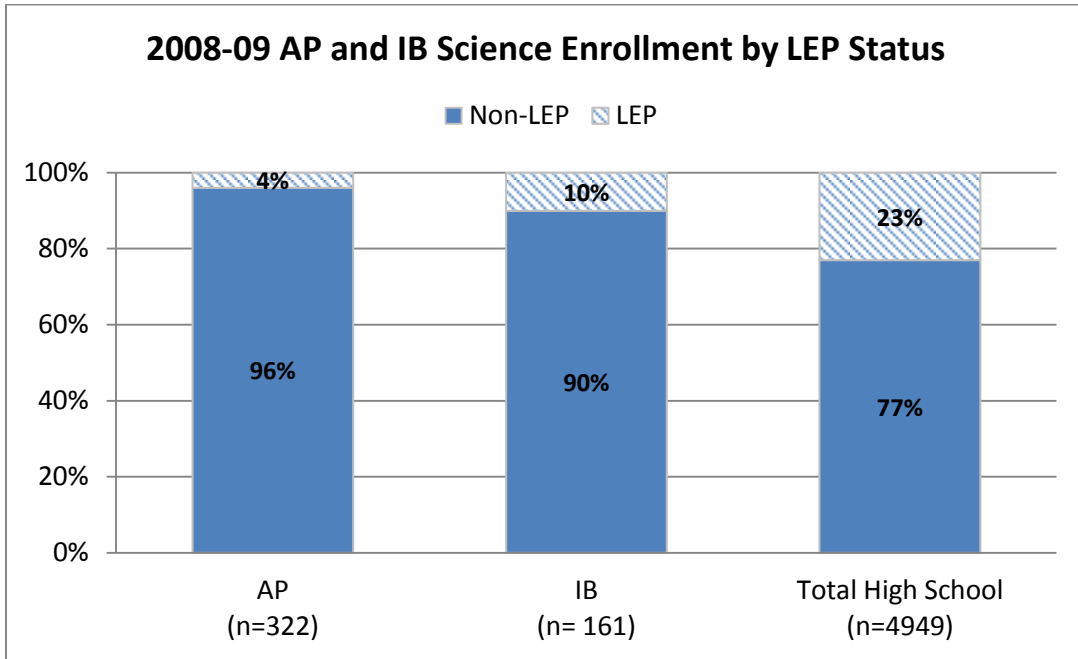


Figure 72: AP and IB Science Enrollment by LEP Status, 2008–09



Figures 73 through 77 show AP Science and IB Science enrollment data by disability status for each of the last five school years.

Figure 73: AP and IB Science Enrollment by Disability Status, 2012–13

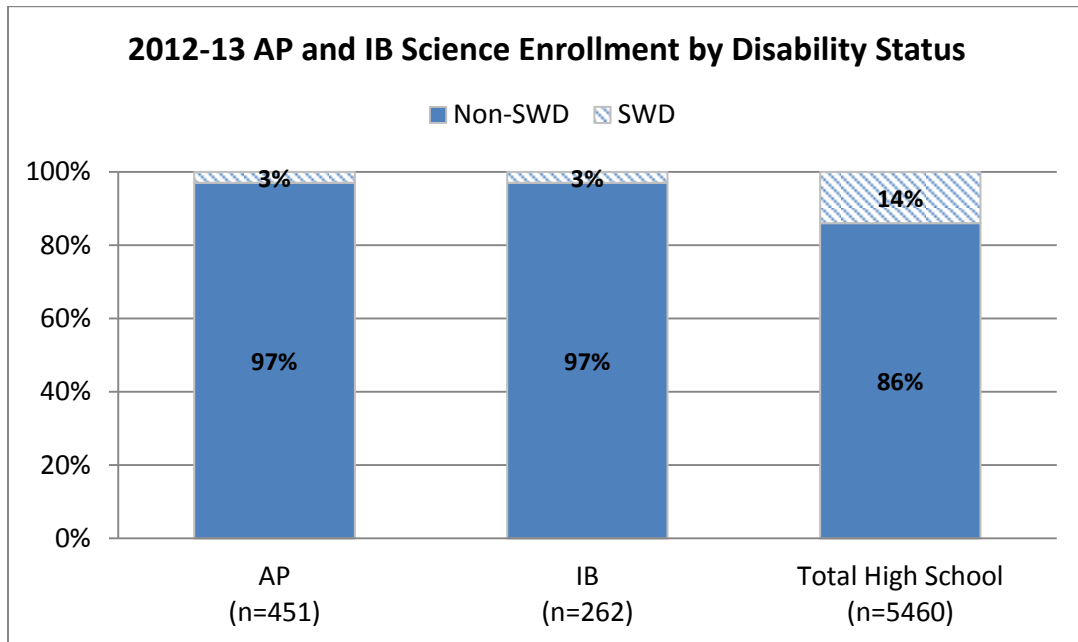


Figure 74: AP and IB Science Enrollment by Disability Status, 2011–12

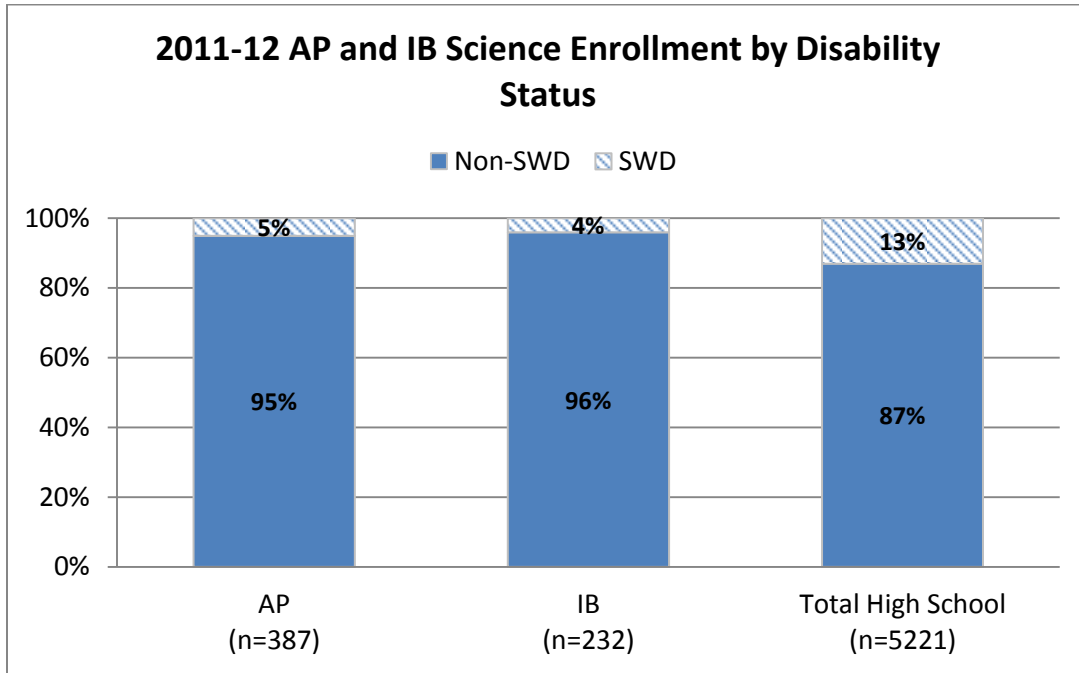


Figure 75: AP and IB Science Enrollment by Disability Status, 2010–11

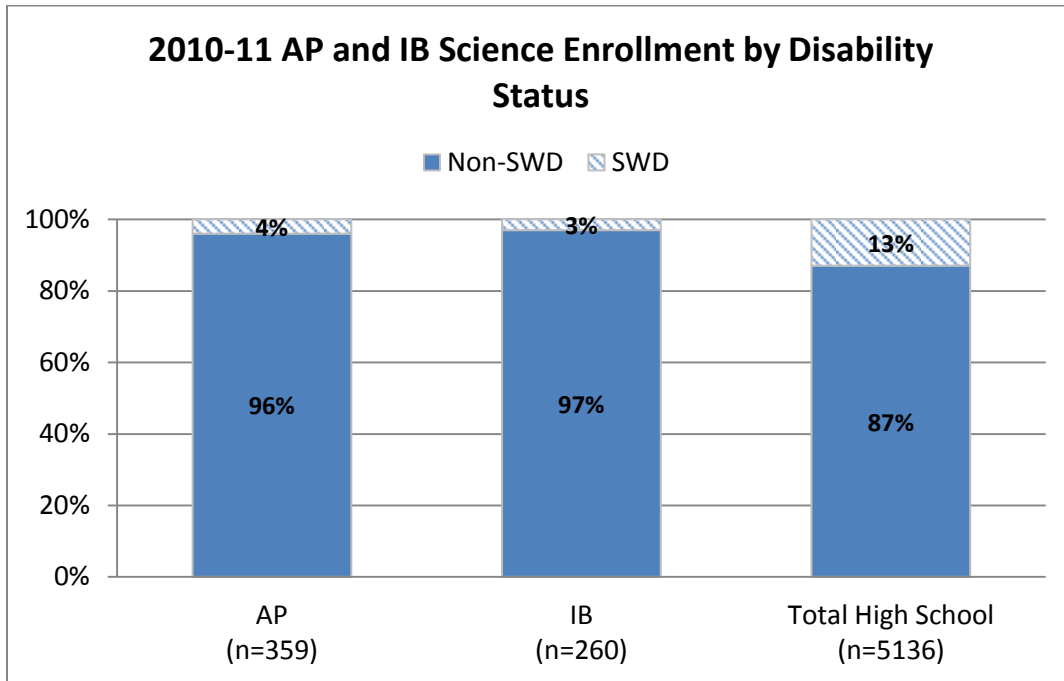


Figure 76: AP and IB Science Enrollment by Disability Status, 2009–10

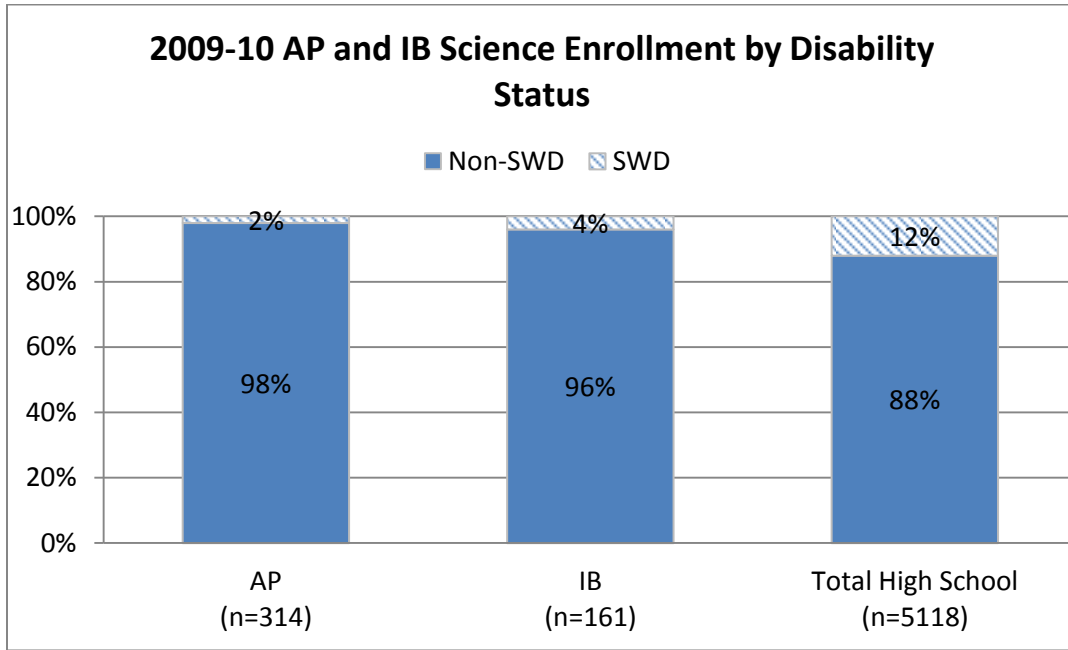
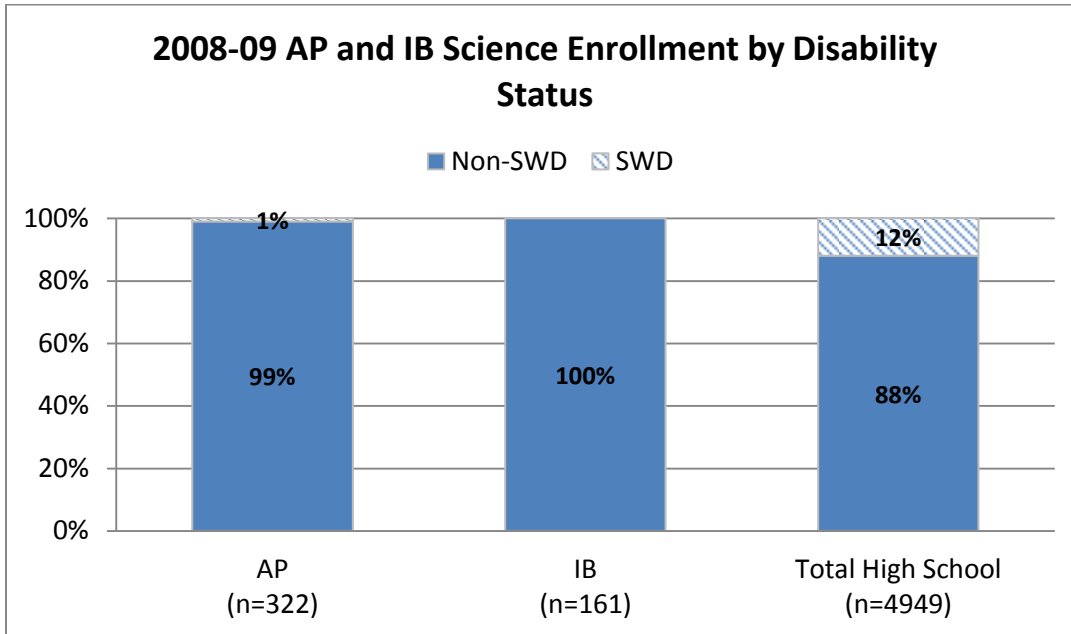


Figure 77: AP and IB Science Enrollment by Disability Status, 2008–09

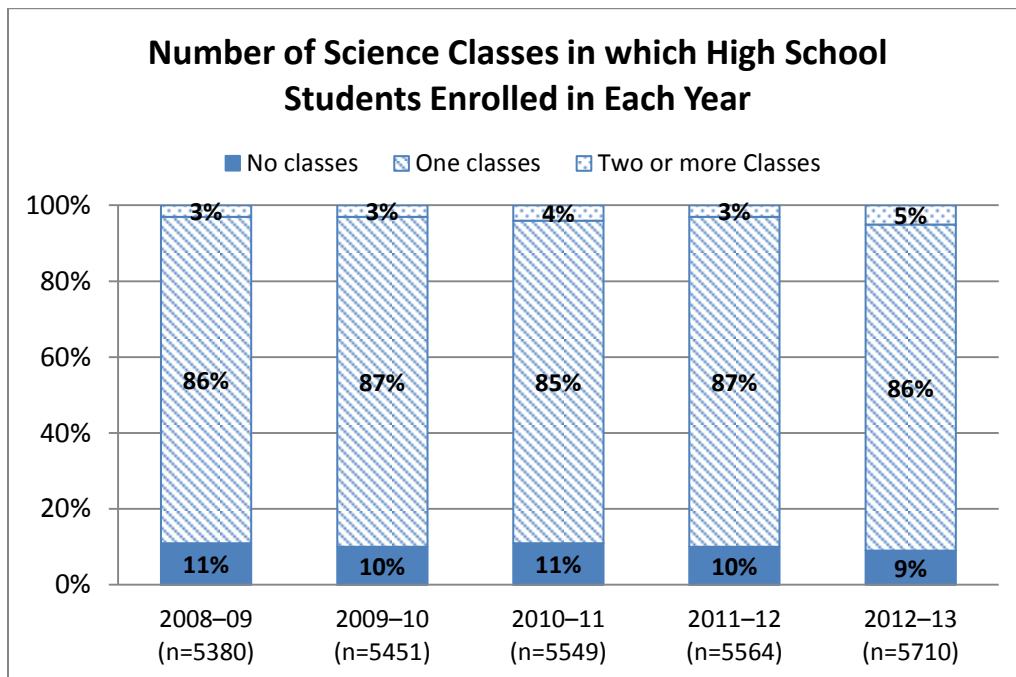


High School Science Enrollment by Number of Classes

This section displays the number of Science courses each high school student enrolled in per year. Data is disaggregated by subgroups over five years. Total high school data reflect the number of students enrolled in high school, not the number of enrollments in Science classes (students may be enrolled in more than one Science class per year).

Figure 78 shows the percentage of high school students who enrolled in one Science class, two or more Science classes, or no Science class during each of the last five school years.

Figure 78: Number of High School Science Classes in which Students Enrolled per Year, 2008–09 through 2012–13



Figures 79 through 83 show the percentage of high school students by race/ethnicity who enrolled in one Science class, two or more Science classes, or no Science class in each of the last five school years.

Figure 79: High School Science Course Enrollment Count by Race/Ethnicity, 2012–13

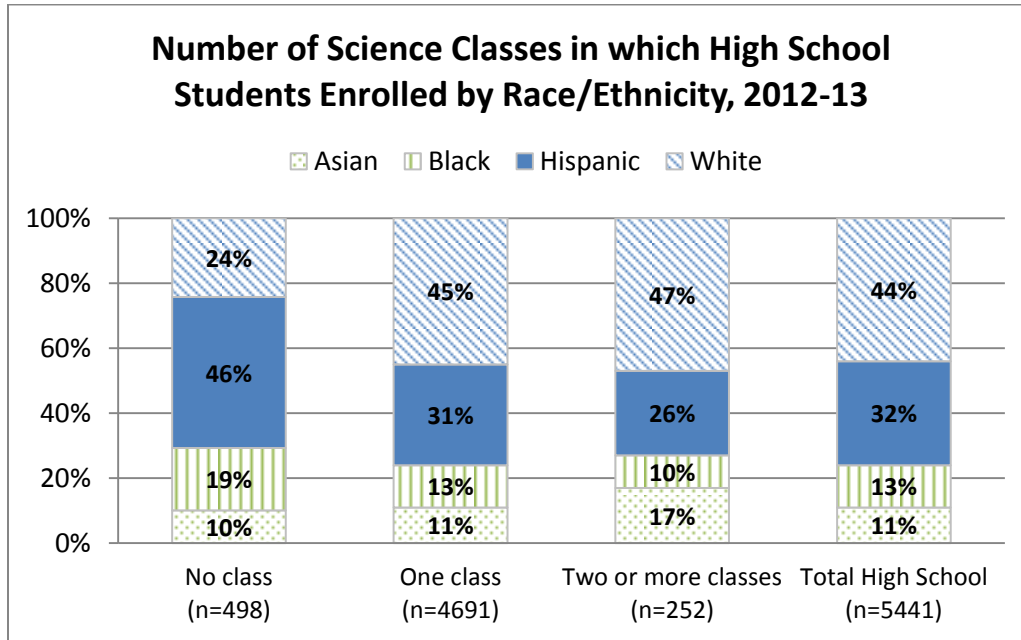


Figure 80: High School Science Course Enrollment Count by Race/Ethnicity, 2011–12

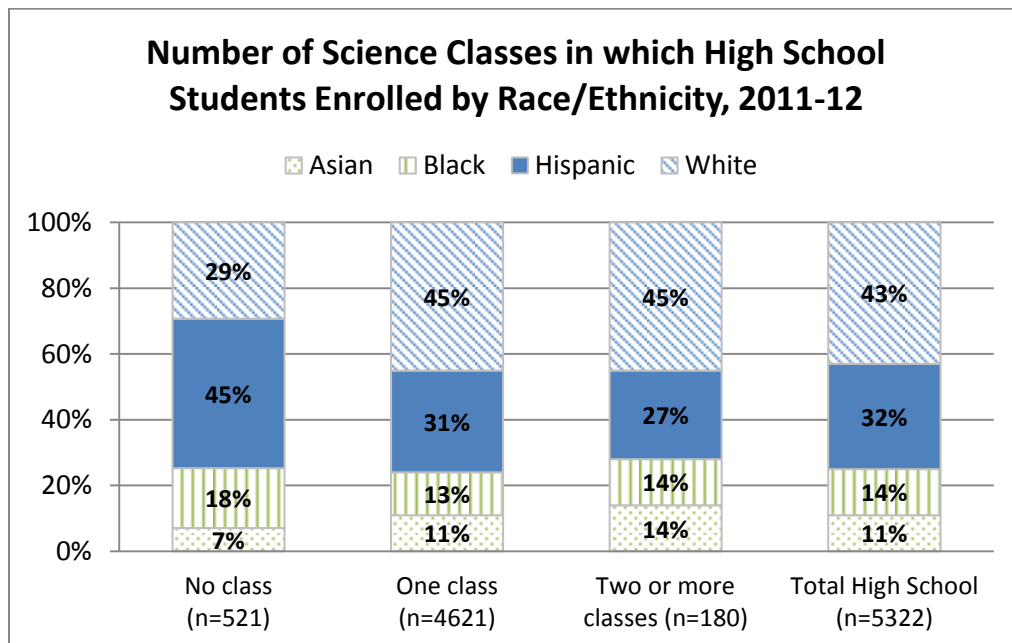


Figure 81: High School Science Course Enrollment Count by Race/Ethnicity, 2010–11

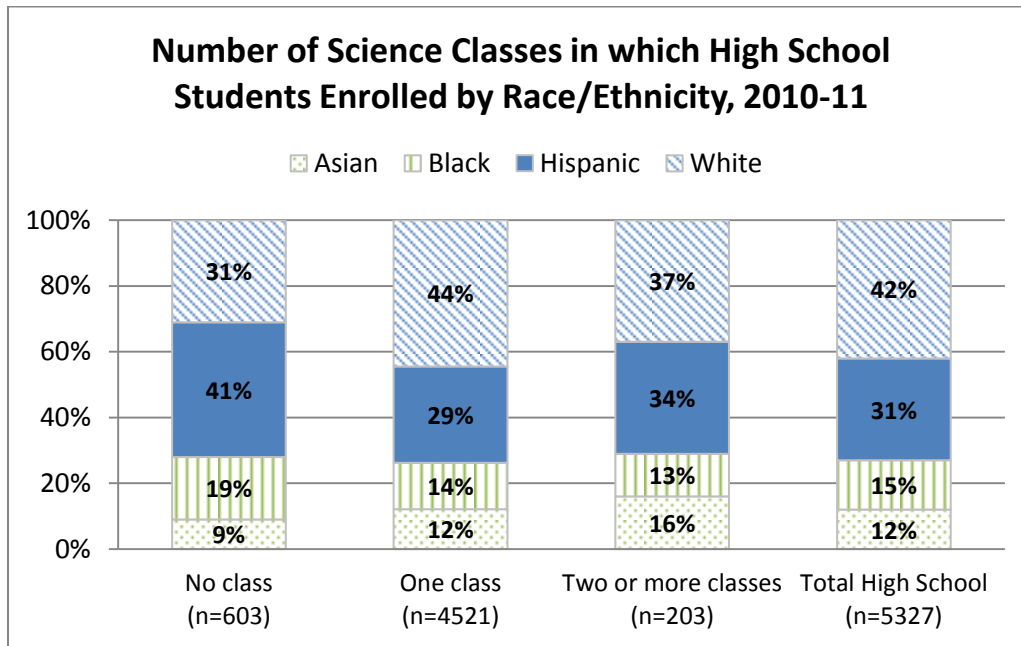


Figure 82: High School Science Course Enrollment Count by Race/Ethnicity, 2009–10

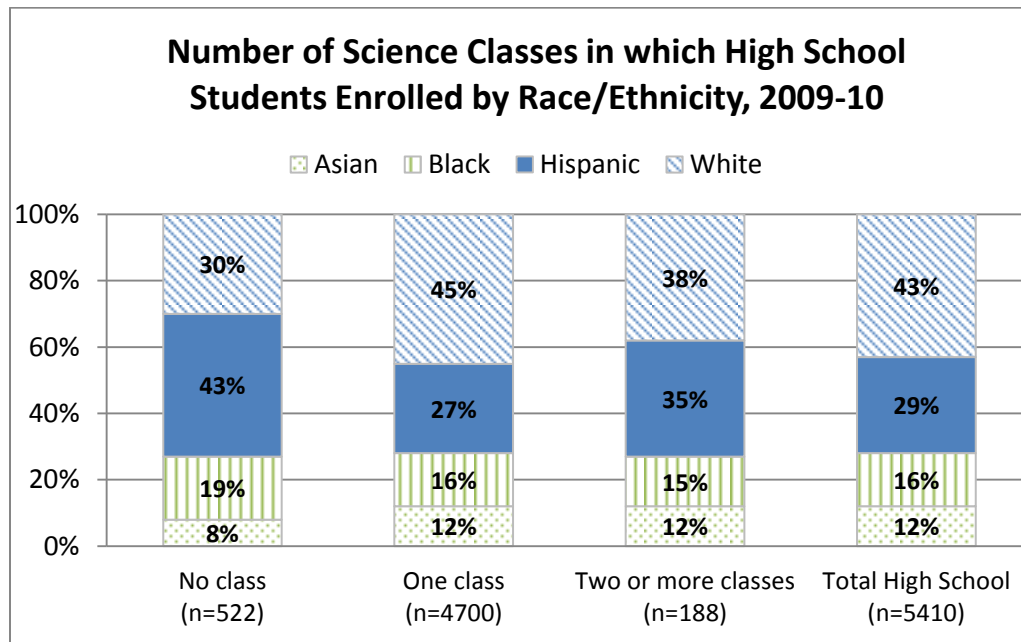
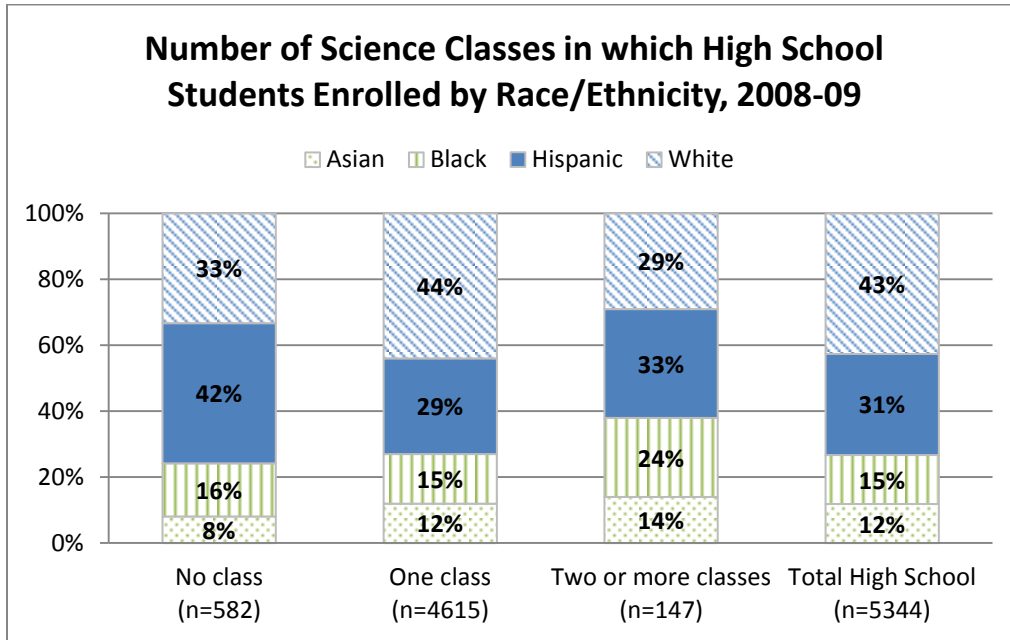


Figure 83: High School Science Course Enrollment Count by Race/Ethnicity, 2008–09



Figures 84 through 88 show the percentage of high school students who enrolled in one Science class, two or more Science classes, or no Science classes by gender for each of the last five school years.

Figure 84: High School Science Course Enrollment Count by Gender, 2012–13

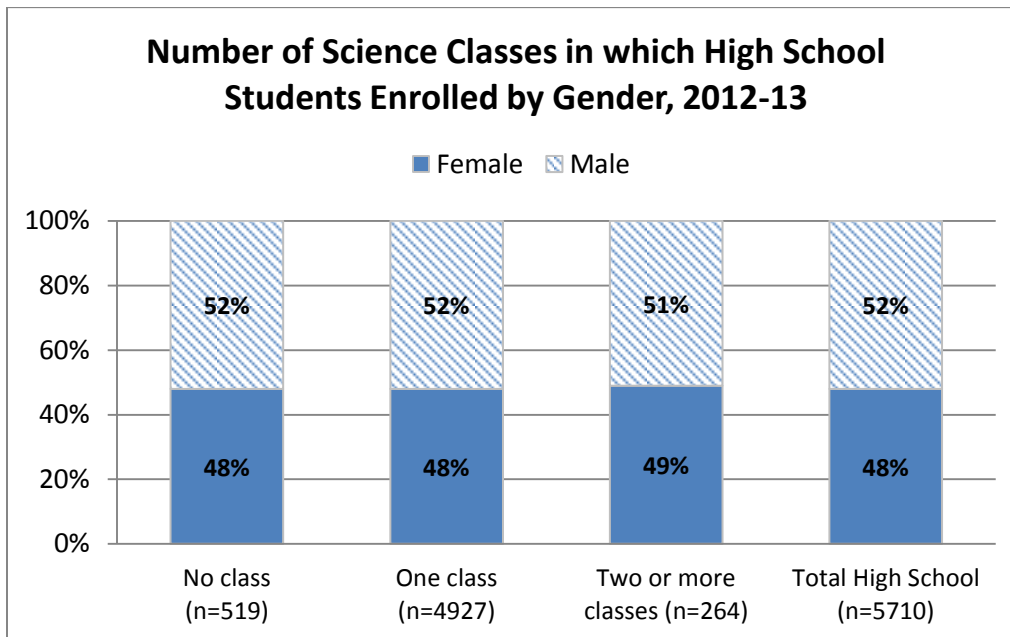


Figure 85: High School Science Course Enrollment Count by Gender, 2011–12

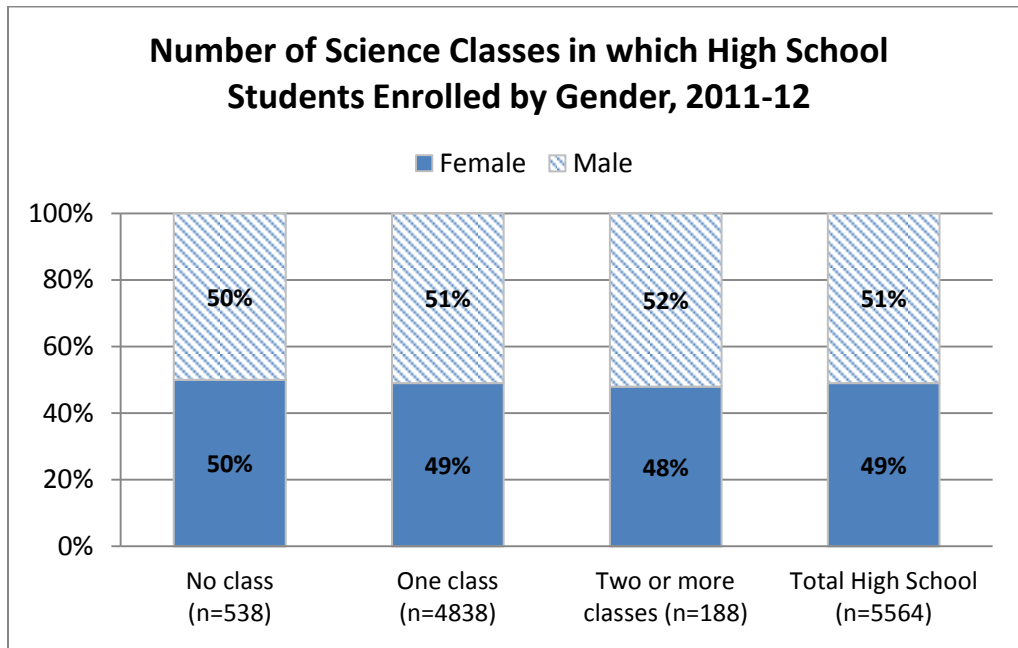


Figure 86: High School Science Course Enrollment Count by Gender, 2010–11

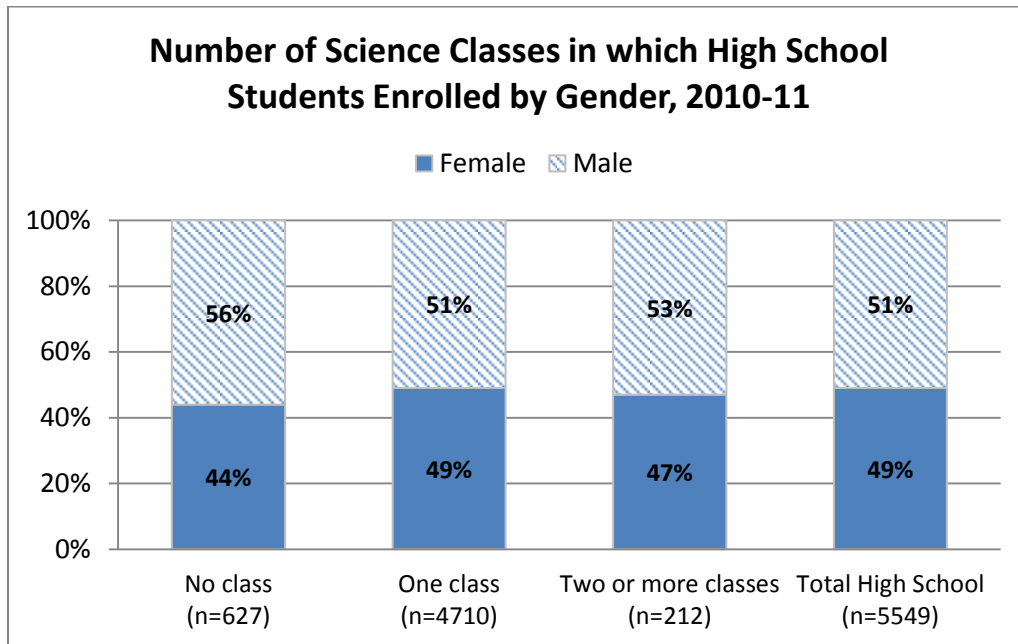


Figure 87: High School Science Course Enrollment Count by Gender, 2009–10

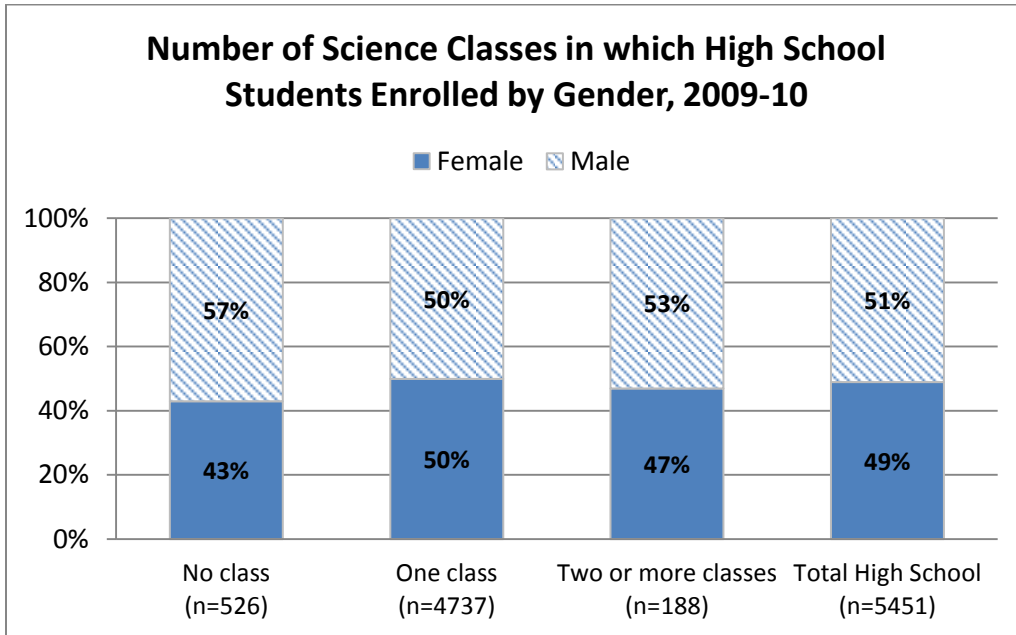
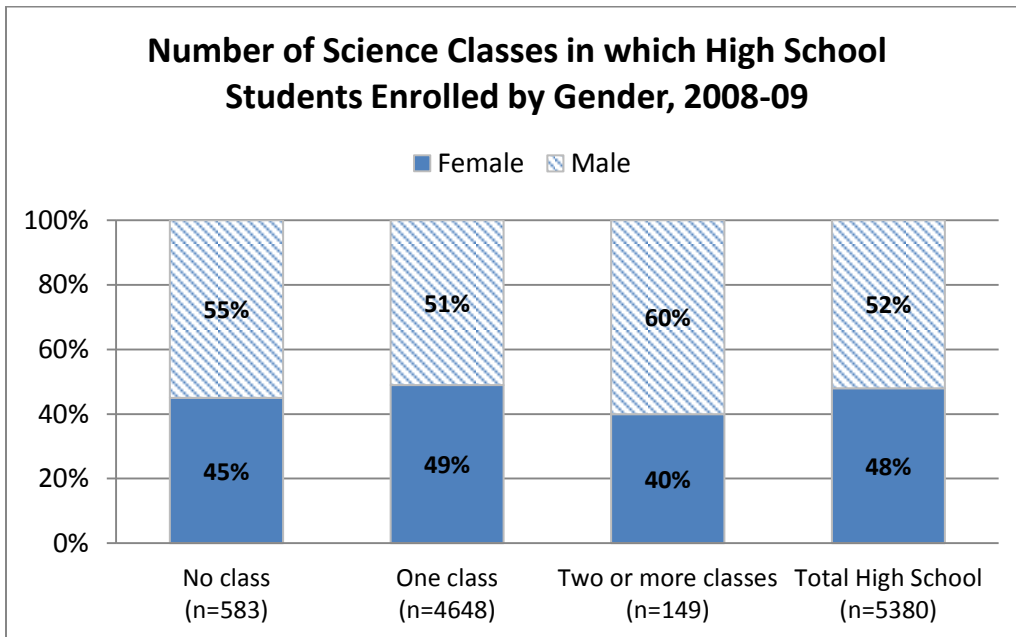


Figure 88: High School Science Course Enrollment Count by Gender, 2008–09



Figures 89 through 93 show the percentage of high school students who enrolled in one Science class, two or more Science classes, or no Science classes by economic status for each of the last five school years.

Figure 89: High School Science Course Enrollment Count by Economic Status, 2012–13

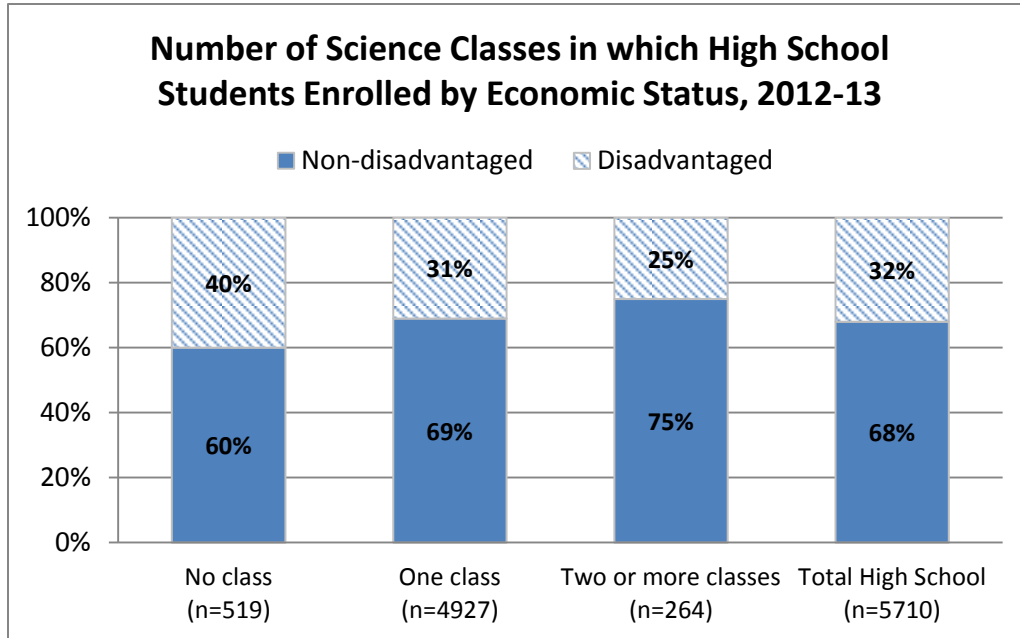


Figure 90: High School Science Course Enrollment Count by Economic Status, 2011–12

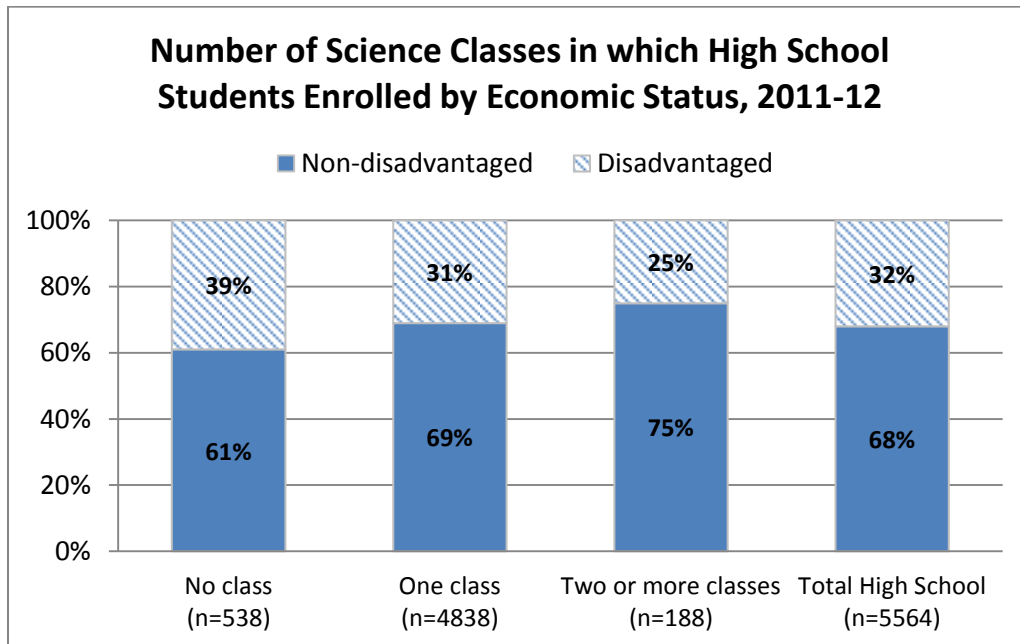


Figure 91: High School Science Course Enrollment Count by Economic Status, 2010–11

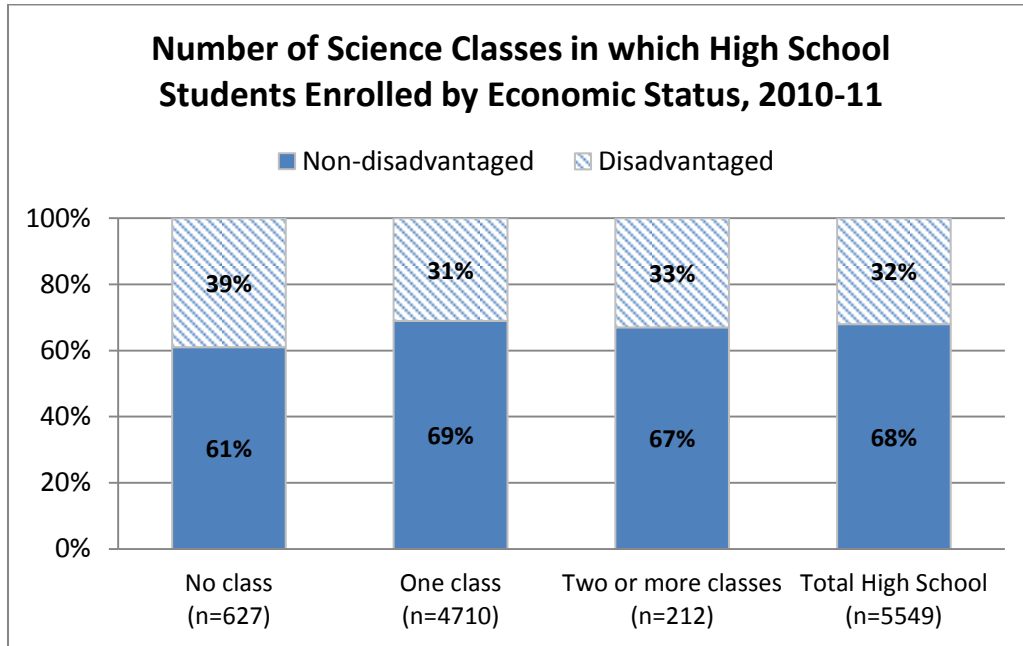


Figure 92: High School Science Course Enrollment Count by Economic Status, 2009–10

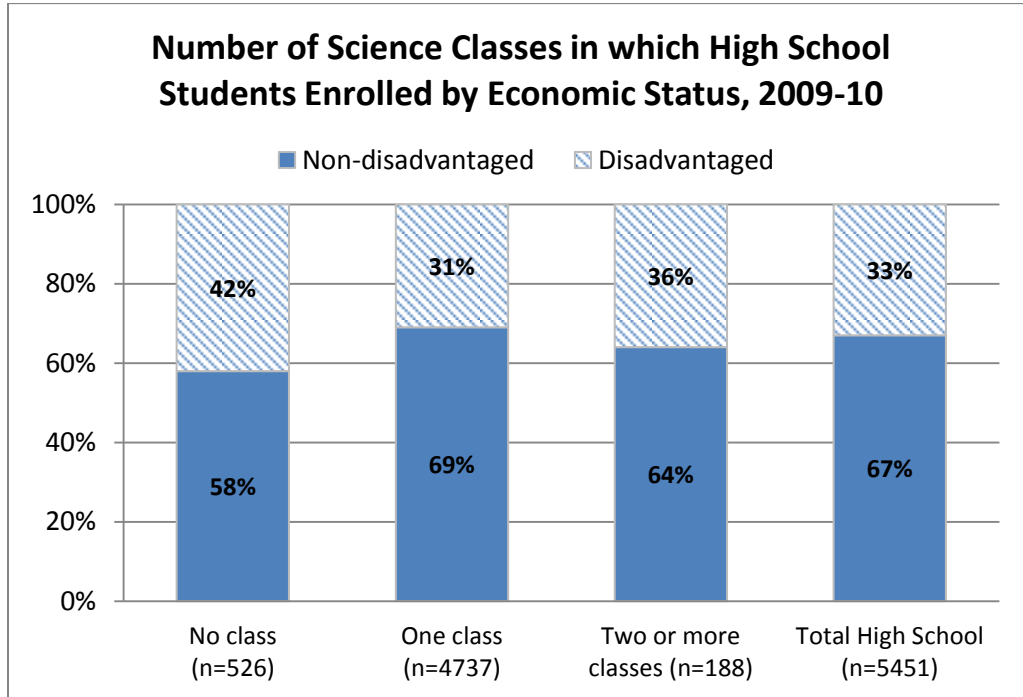
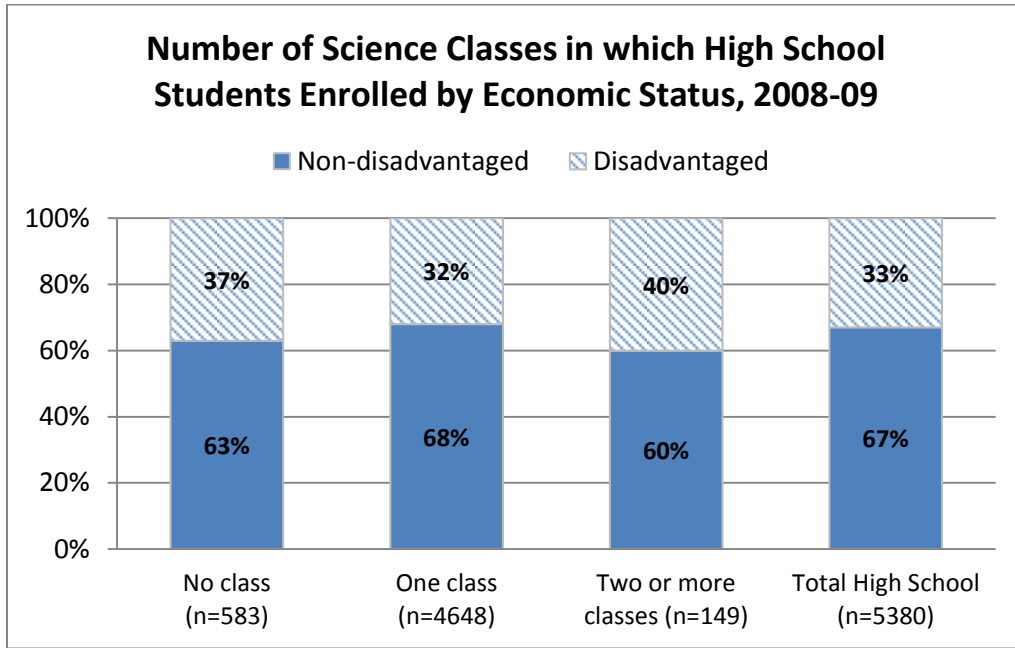


Figure 93: High School Science Course Enrollment Count by Economic Status, 2008–09



Figures 94 through 98 show the percentage of high school students who enrolled in one Science class, two or more Science classes, or no Science classes by LEP status for each of the last five school years.

Figure 94: High School Science Course Enrollment Count by LEP Status, 2012–13

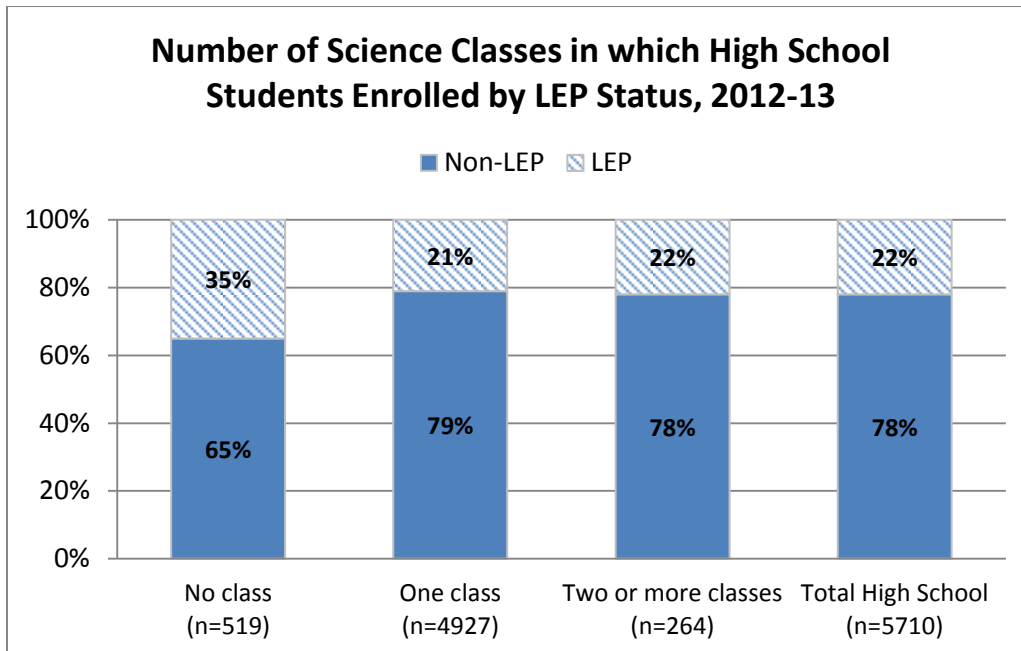


Figure 95: High School Science Course Enrollment Count by LEP Status, 2011–12

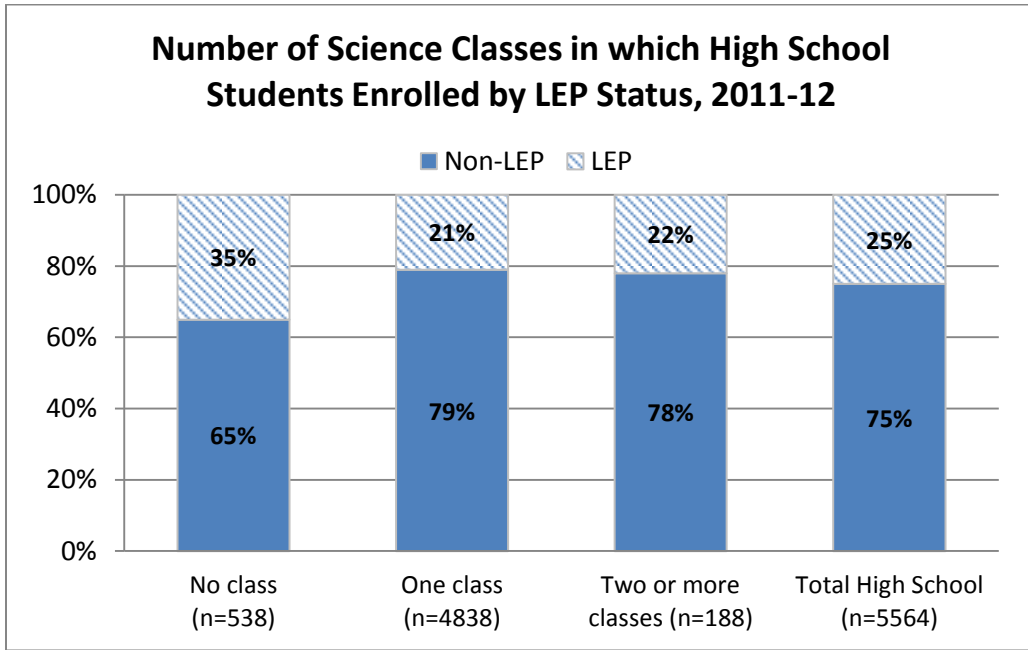


Figure 96: High School Science Course Enrollment Count by LEP Status, 2010–11

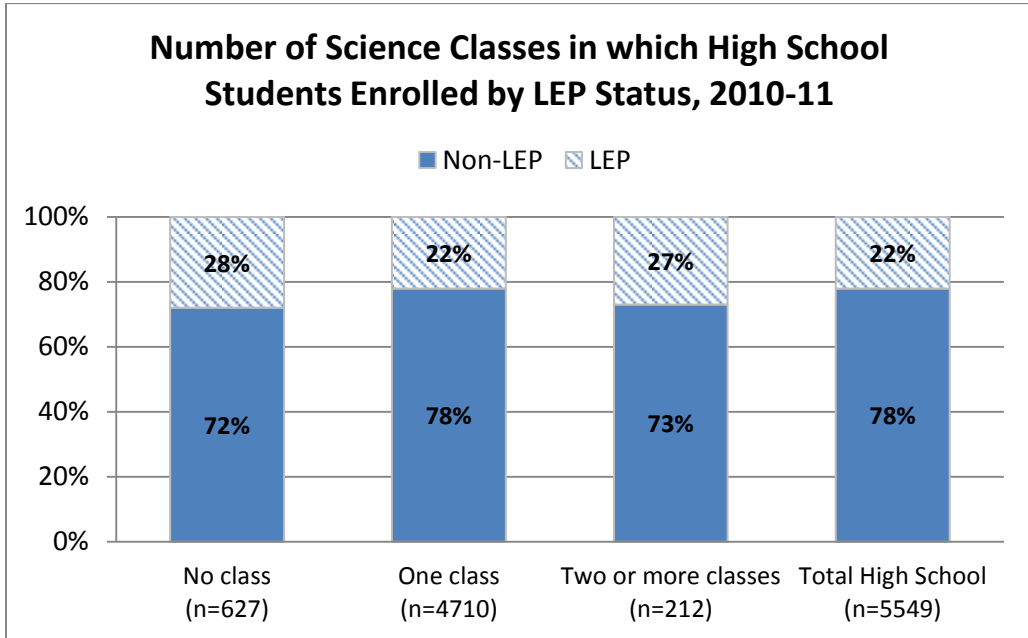


Figure 97: High School Science Course Enrollment Count by LEP Status, 2009–10

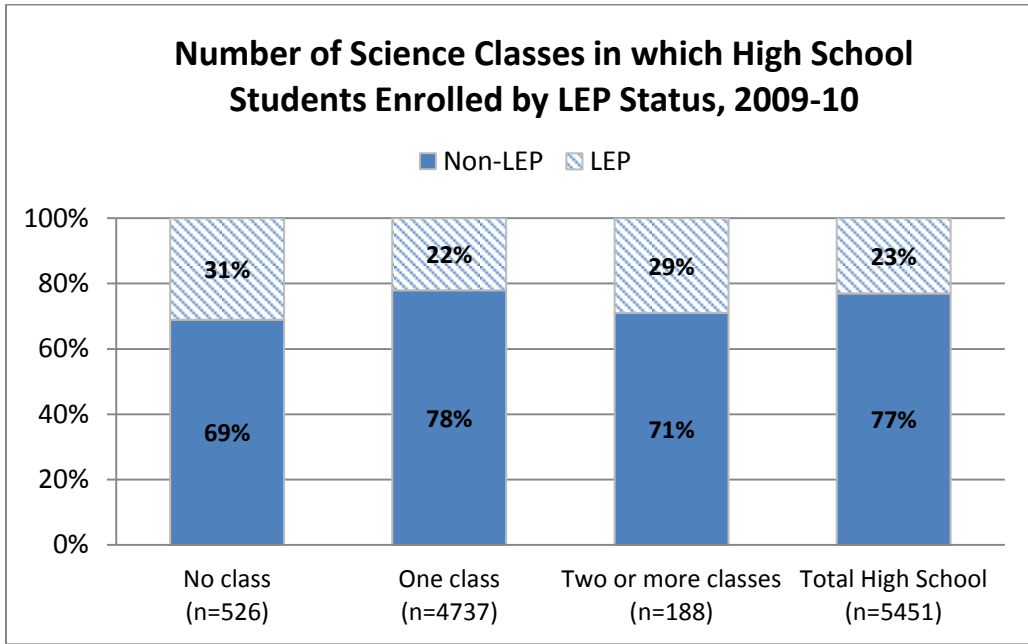
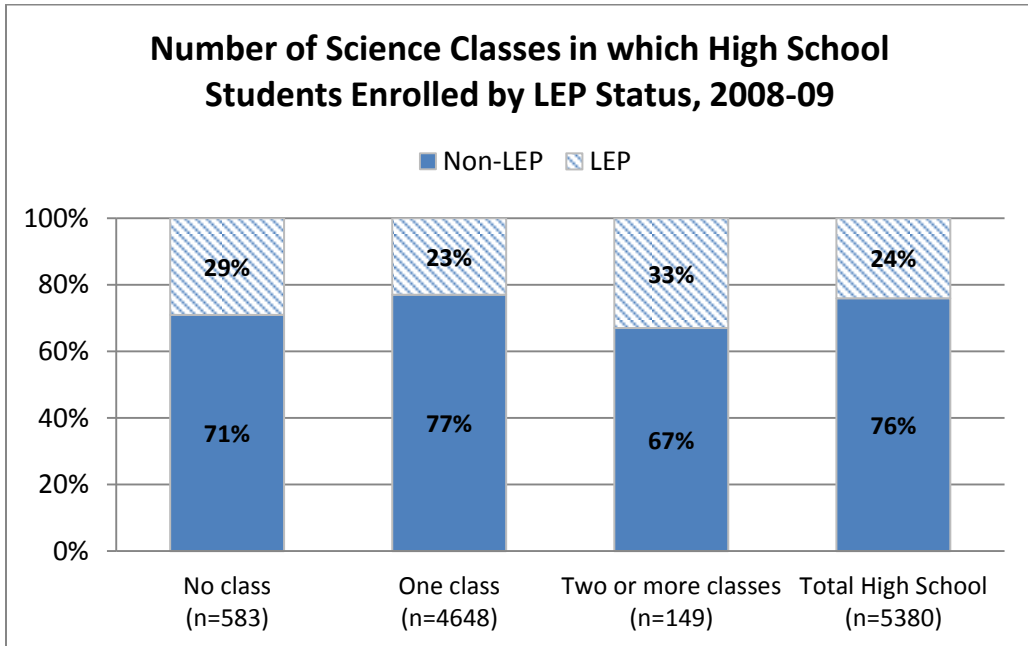


Figure 98: High School Science Course Enrollment Count by LEP Status, 2008–09



Figures 99 through 103 show the percentage of high school students who enrolled in one Science class, two or more Science classes, or no Science classes by disability status for each of the last five school years.

Figure 99: High School Science Course Enrollment Count by Disability Status, 2012–13

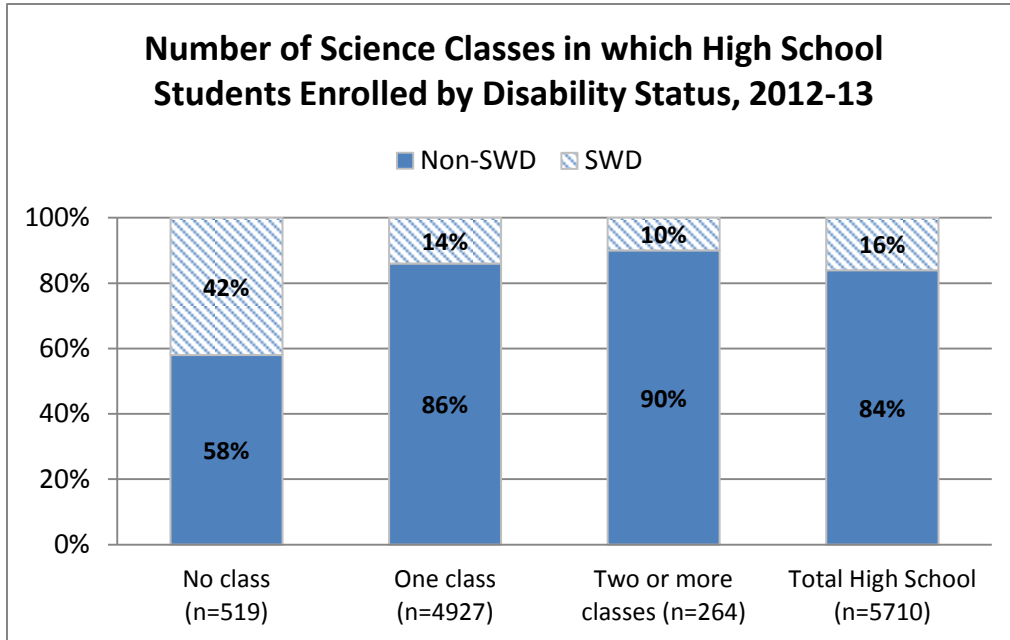


Figure 100: High School Science Course Enrollment Count by Disability Status, 2011–12

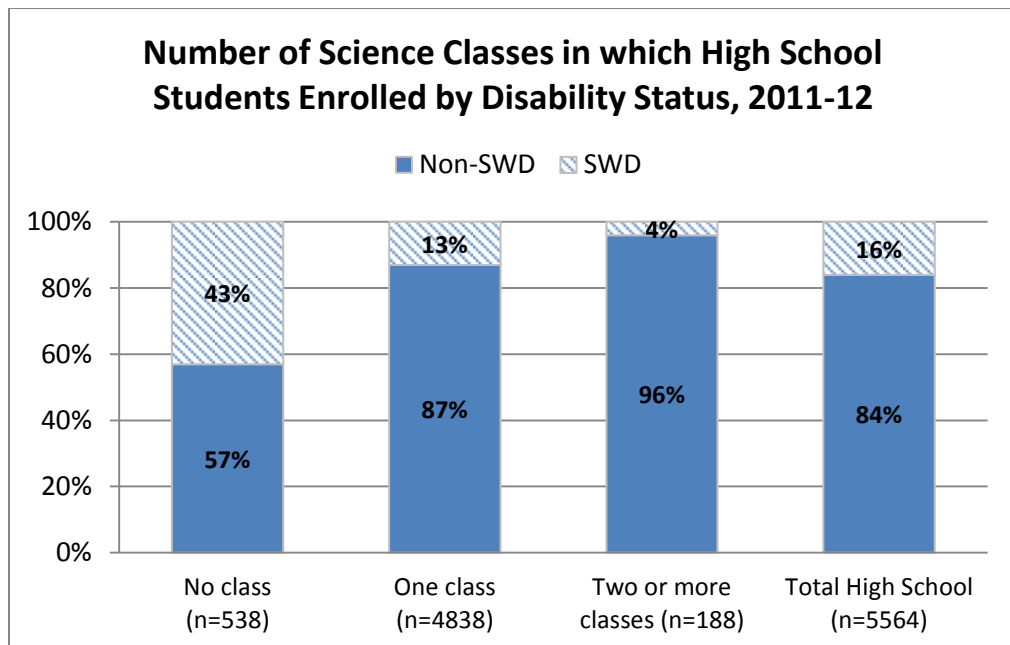


Figure 101: High School Science Course Enrollment Count by Disability Status, 2010–11

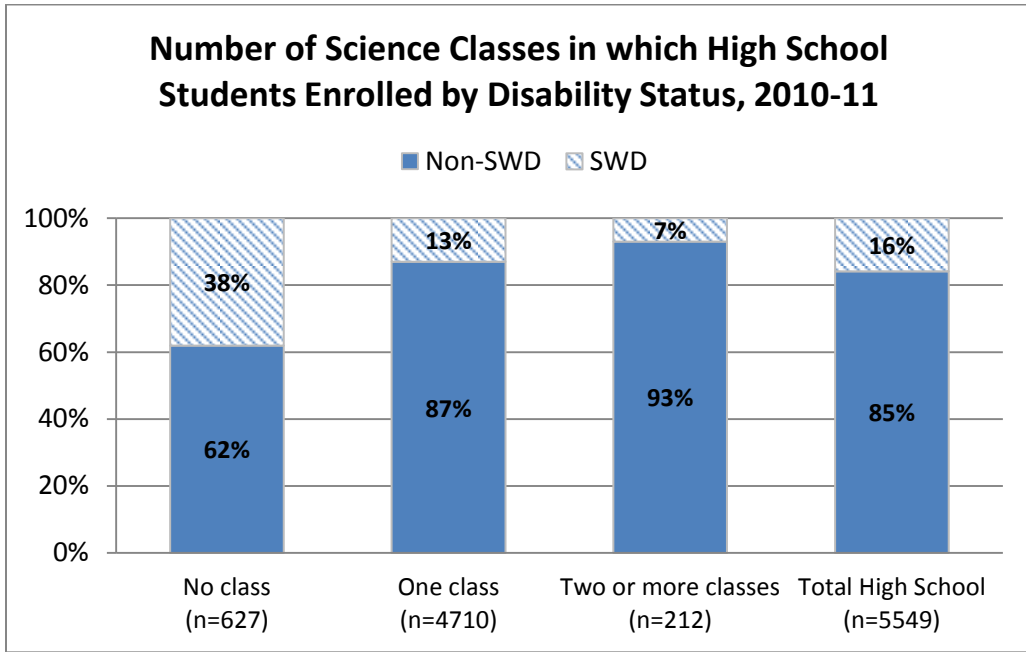


Figure 102: High School Science Course Enrollment Count by Disability Status, 2009–10

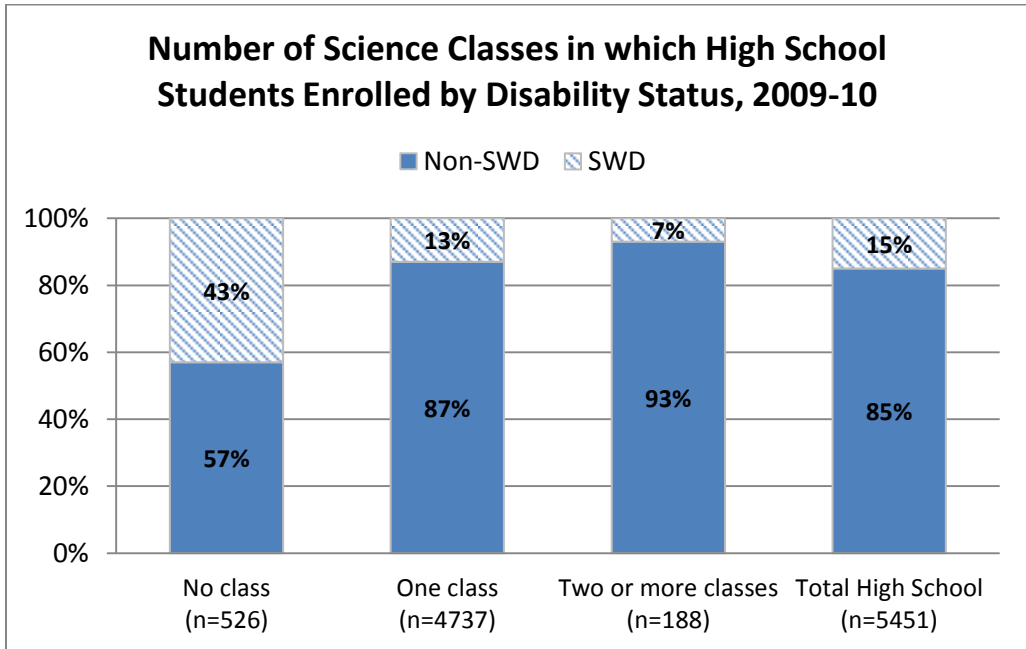
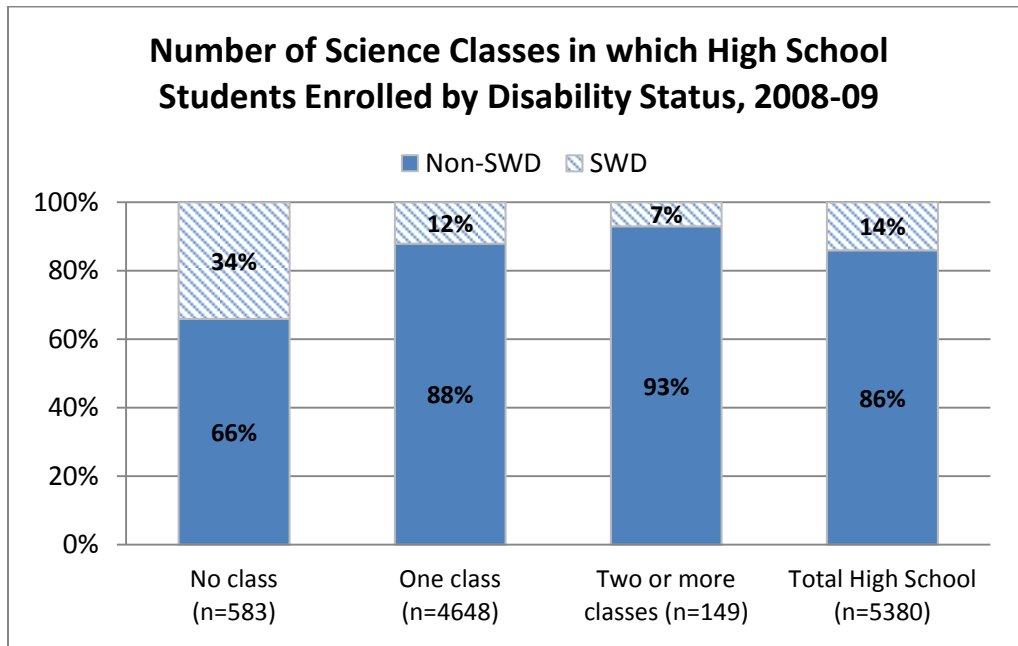


Figure 103: High School Science Course Enrollment Count by Disability Status, 2008–09

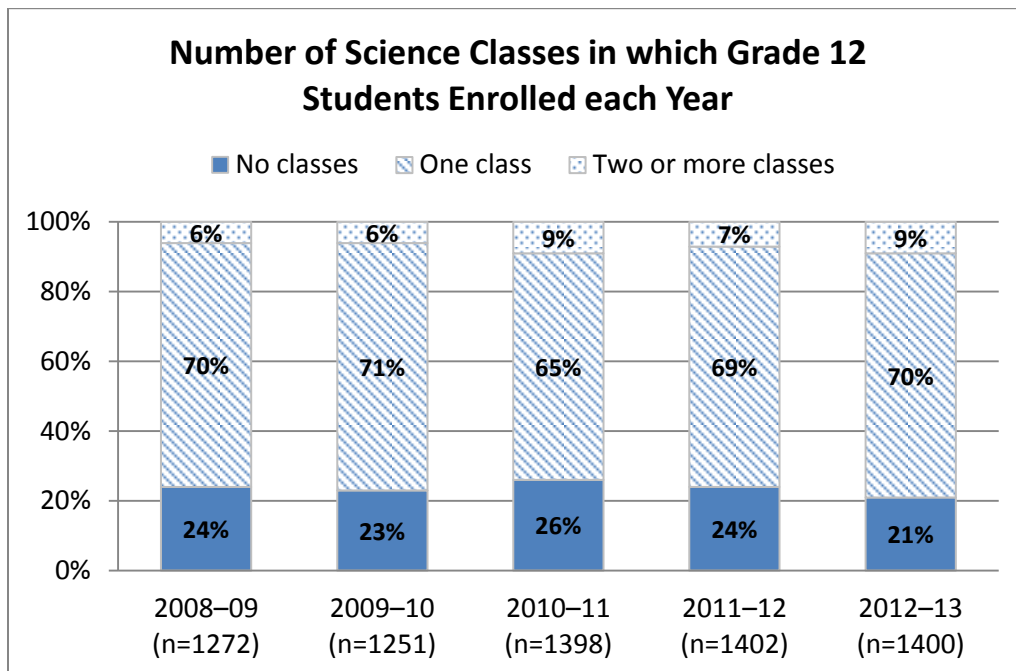


Grade 12 Science Enrollment by Number of Classes

This section displays the number of Science courses grade 12 students enrolled in per year. Data is disaggregated by subgroups over five years. Total grade 12 data reflect the number of students enrolled in grade 12, not the number of enrollments in grade 12 Science classes (students may be enrolled in more than one Science class per year).

Figure 104 shows the percentage of grade 12 students who enrolled in one Science class, two or more Science classes, or no Science class during each of the last five school years.

Figure 104: Number of Science Classes in which Grade 12 Students Enrolled per Year, 2008–09 through 2012–13



Figures 105 through 109 show the percentage of grade 12 students who enrolled in one Science class, two or more Science classes, or no Science classes by race/ethnicity for each of the last five school years.

Figure 105: Grade 12 Science Course Enrollment Count by Race/Ethnicity, 2012–13

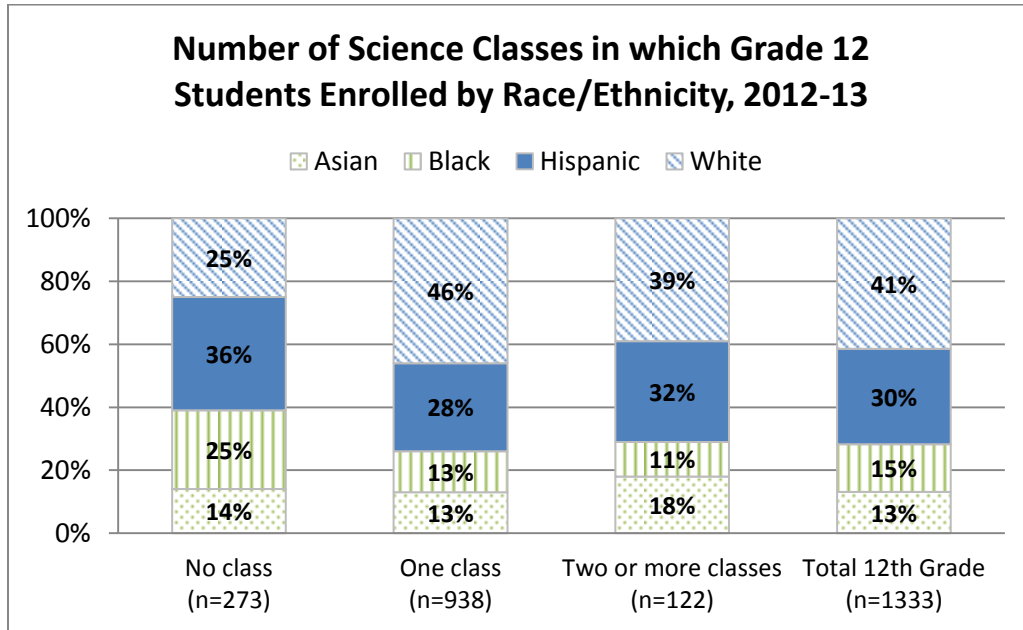


Figure 106: Grade 12 Science Course Enrollment Count by Race/Ethnicity, 2011–12

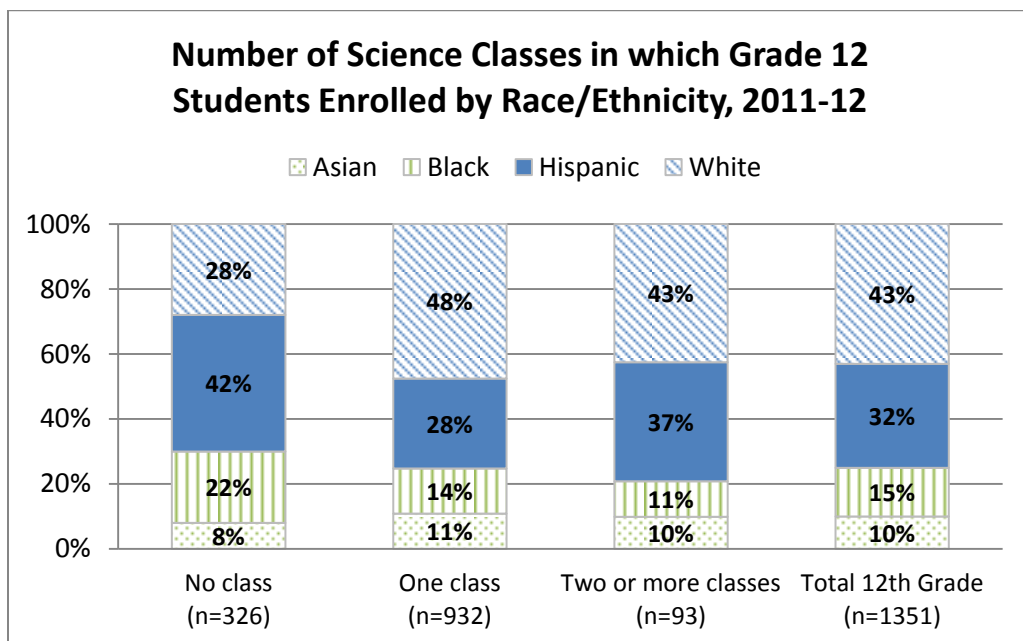


Figure 107: Grade 12 Science Course Enrollment Count by Race/Ethnicity, 2010–11

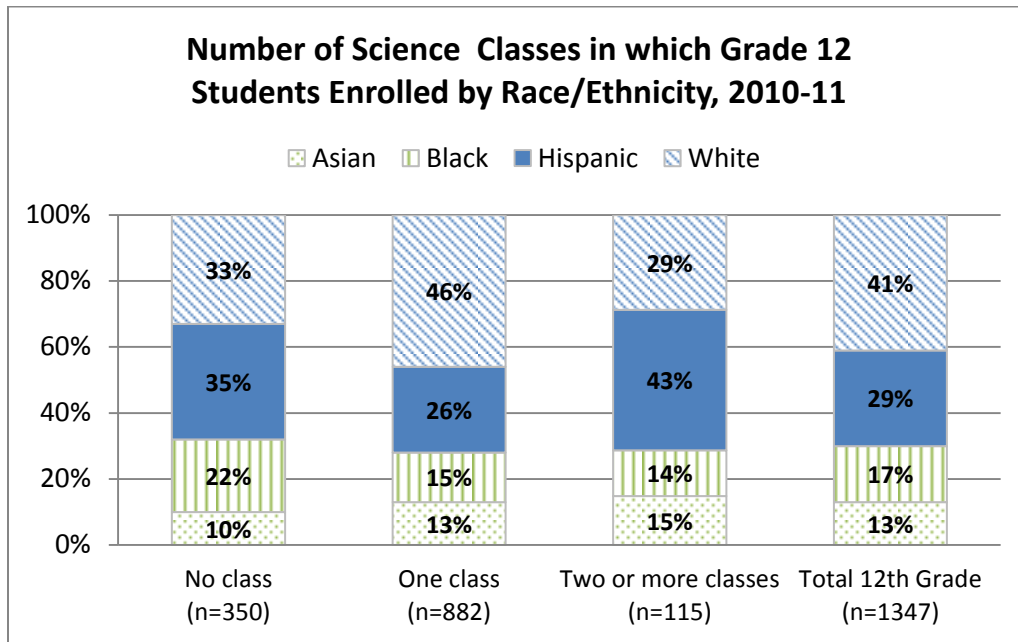


Figure 108: Grade 12 Science Course Enrollment Count by Race/Ethnicity, 2009–10

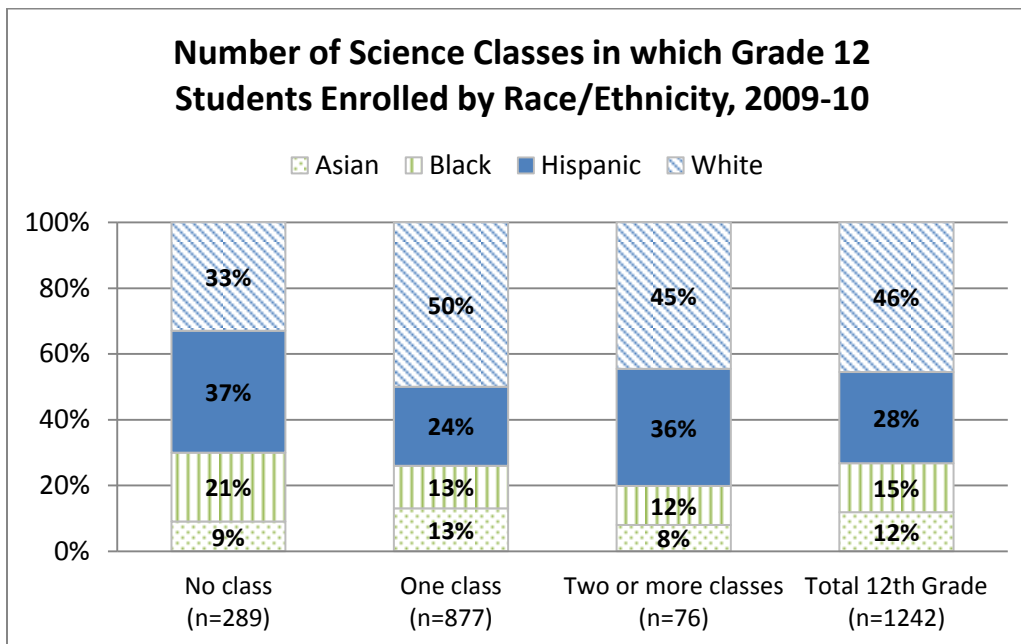
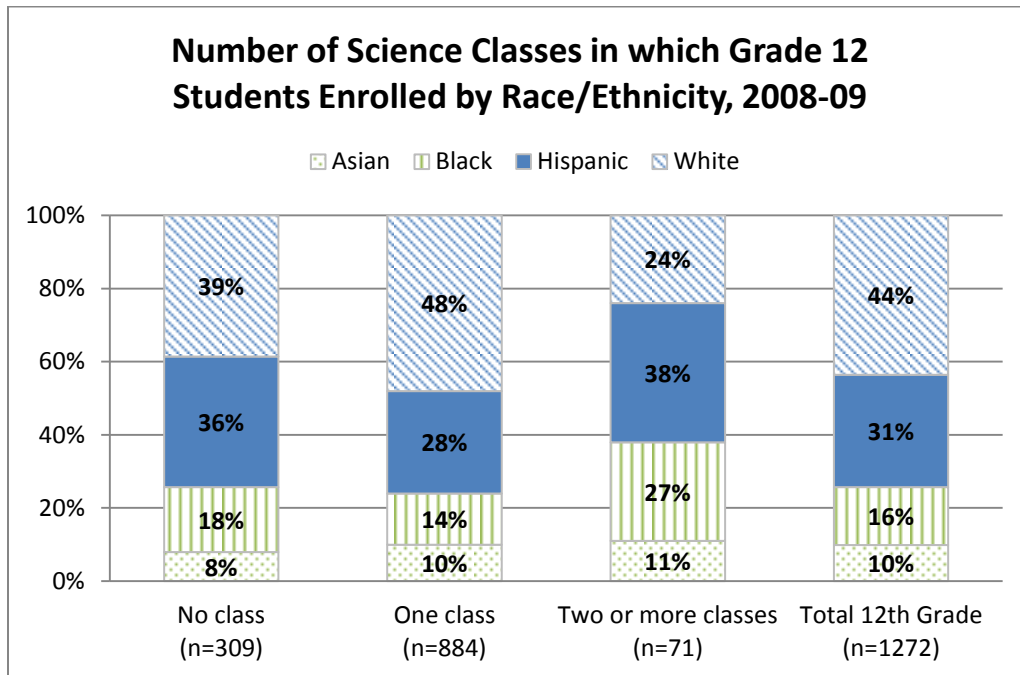


Figure 109: Grade 12 Science Course Enrollment Count by Race/Ethnicity, 2008–09



Figures 110 through 114 show the percentage of grade 12 students who enrolled in one Science class, two or more Science classes, or no Science classes by gender for each of the last five school years.

Figure 110: Grade 12 Science Course Enrollment Count by Gender, 2012–13

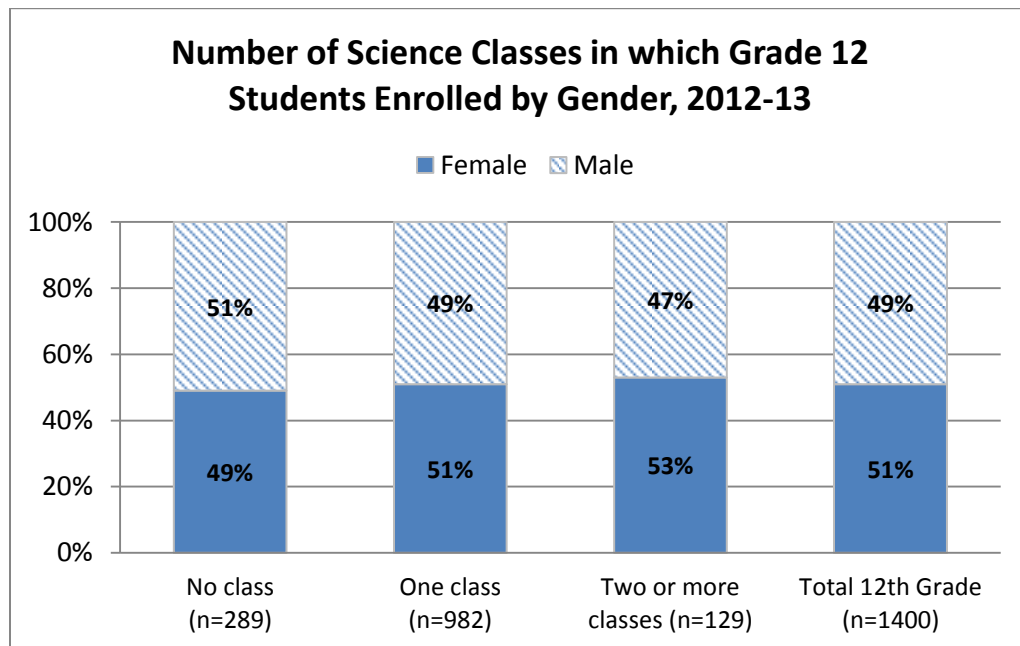


Figure 111: Grade 12 Science Course Enrollment Count by Gender, 2011-12

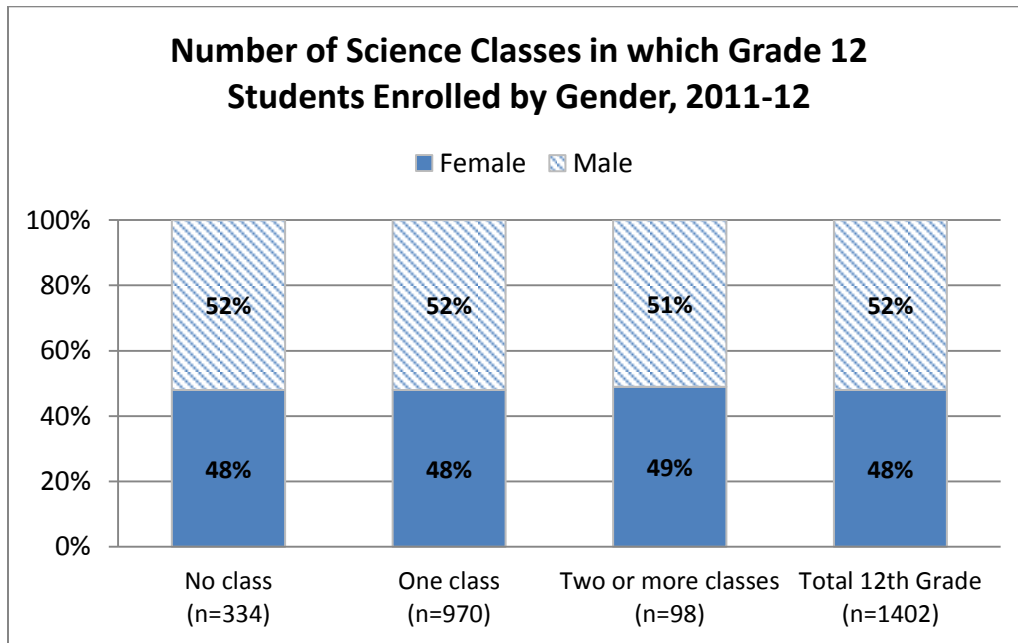


Figure 112: Grade 12 Science Course Enrollment Count by Gender, 2010-11

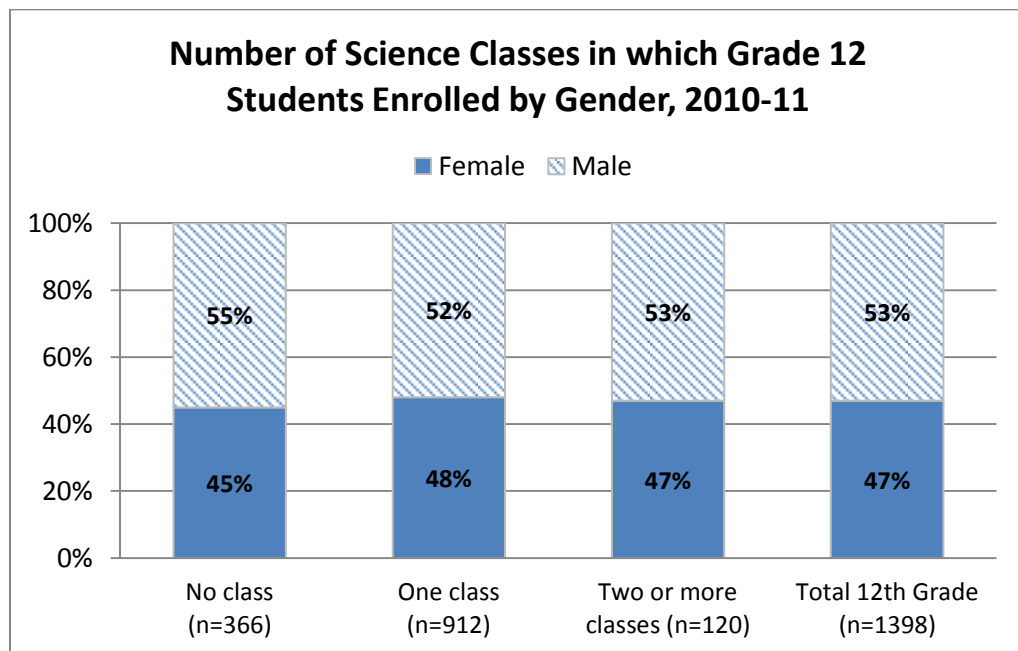


Figure 113: Grade 12 Science Course Enrollment Count by Gender, 2009–10

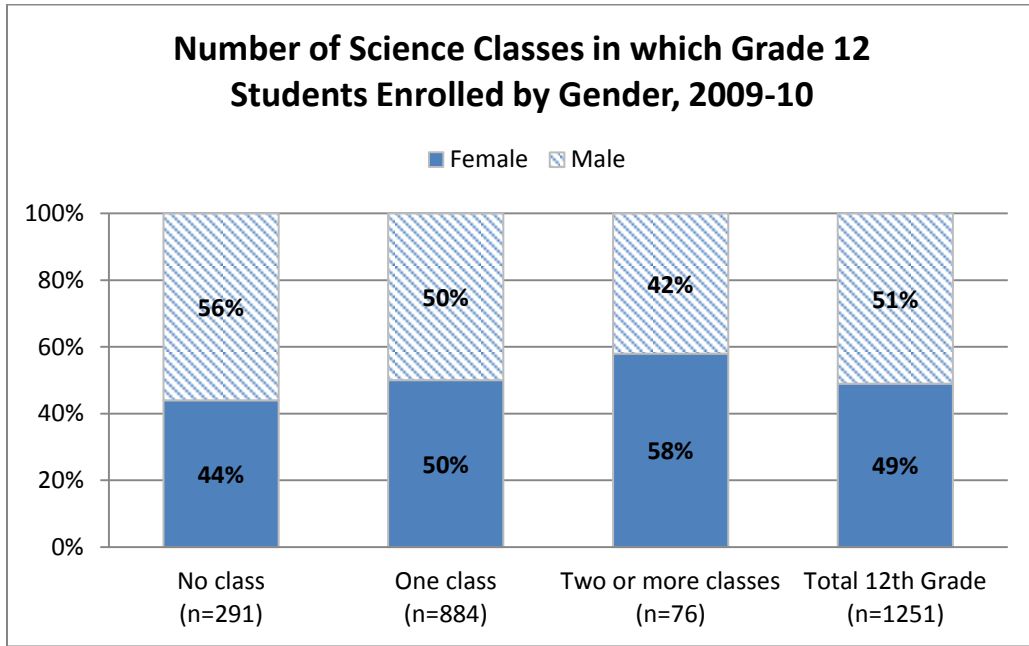
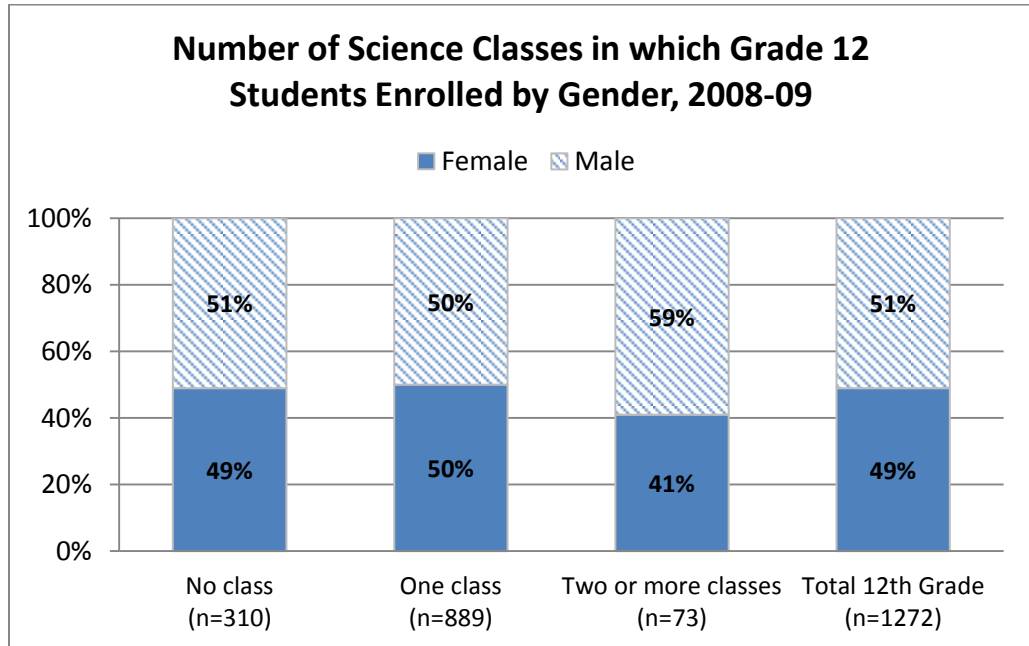


Figure 114: Grade 12 Science Course Enrollment Count by Gender, 2008–09



Figures 115 through 119 show the percentage of grade 12 students who enrolled in one Science class, two or more Science classes, or no Science classes by economic status for each of the last five school years.

Figure 115: Grade 12 Science Course Enrollment Count by Economic Status, 2012–13

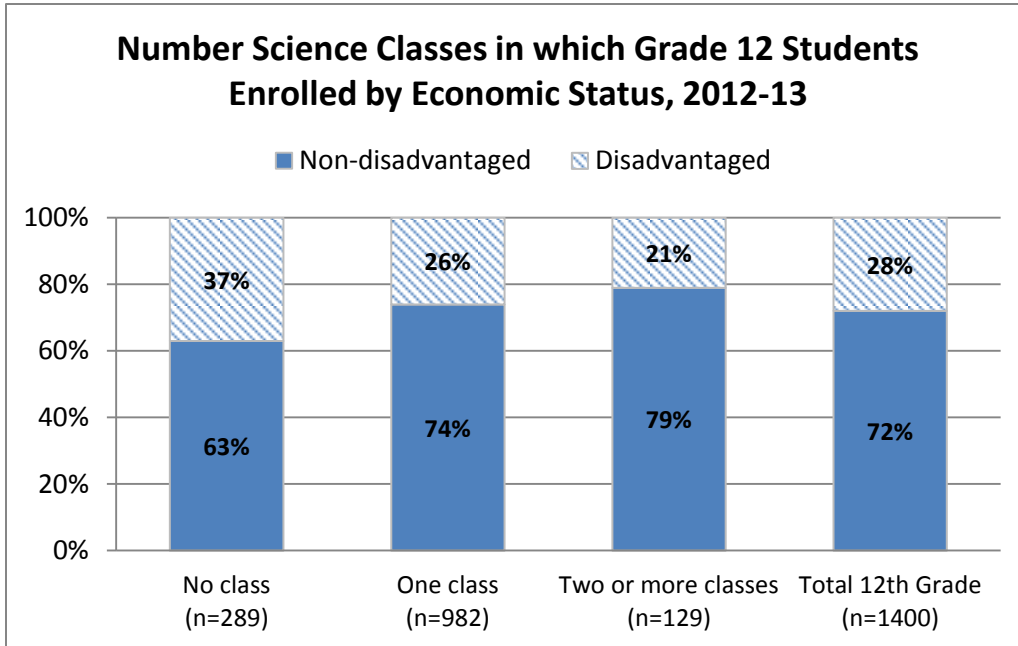


Figure 116: Grade 12 Science Course Enrollment Count by Economic Status, 2011–12

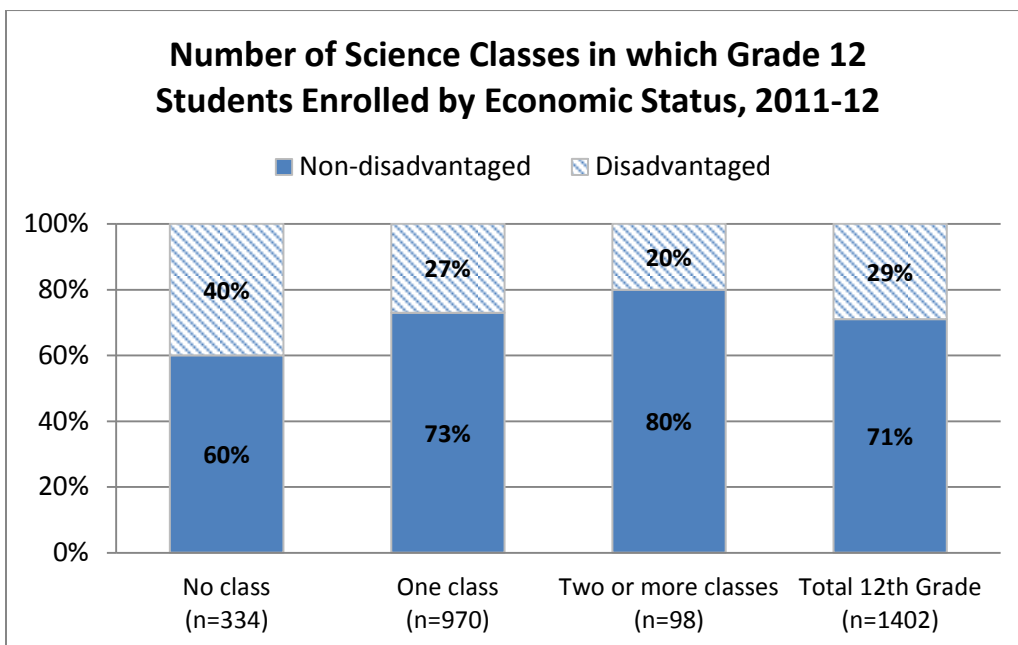


Figure 117: Grade 12 Science Course Enrollment Count by Economic Status, 2010–11

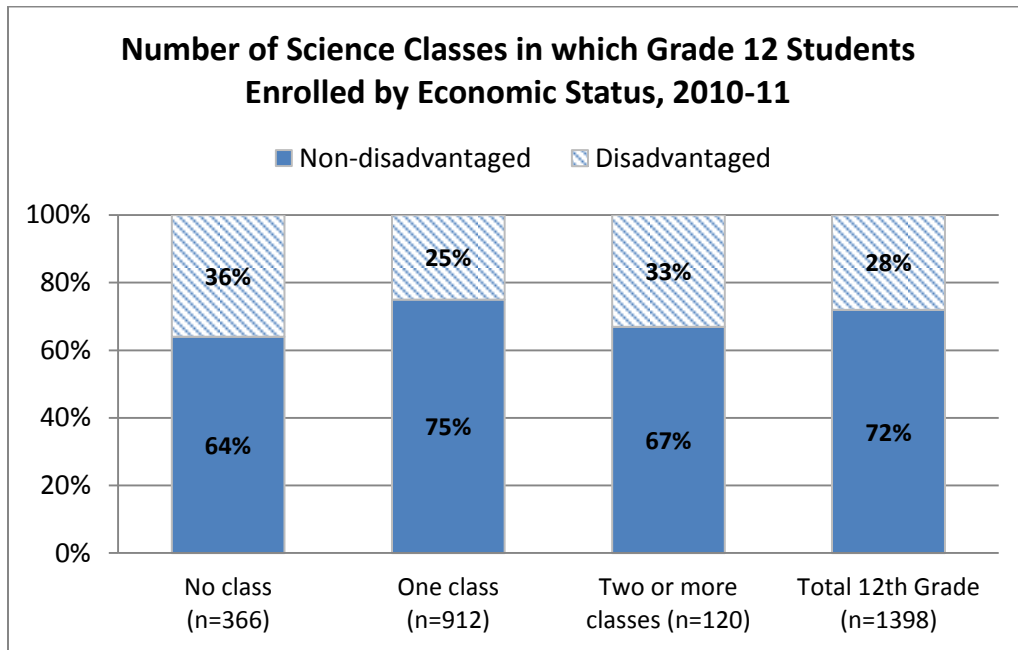


Figure 118: Grade 12 Science Course Enrollment Count by Economic Status, 2009–10

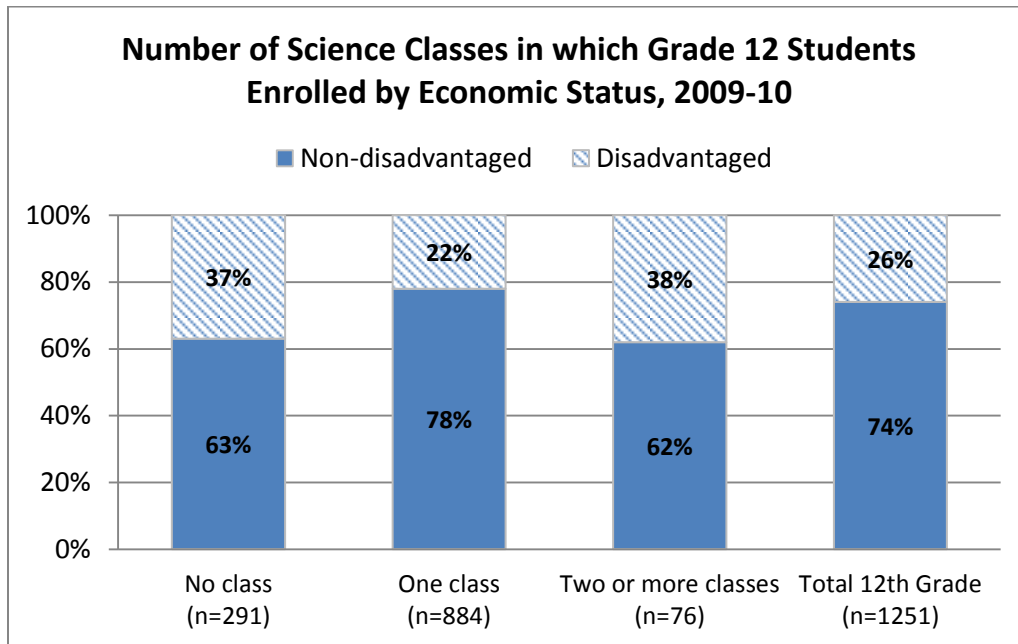
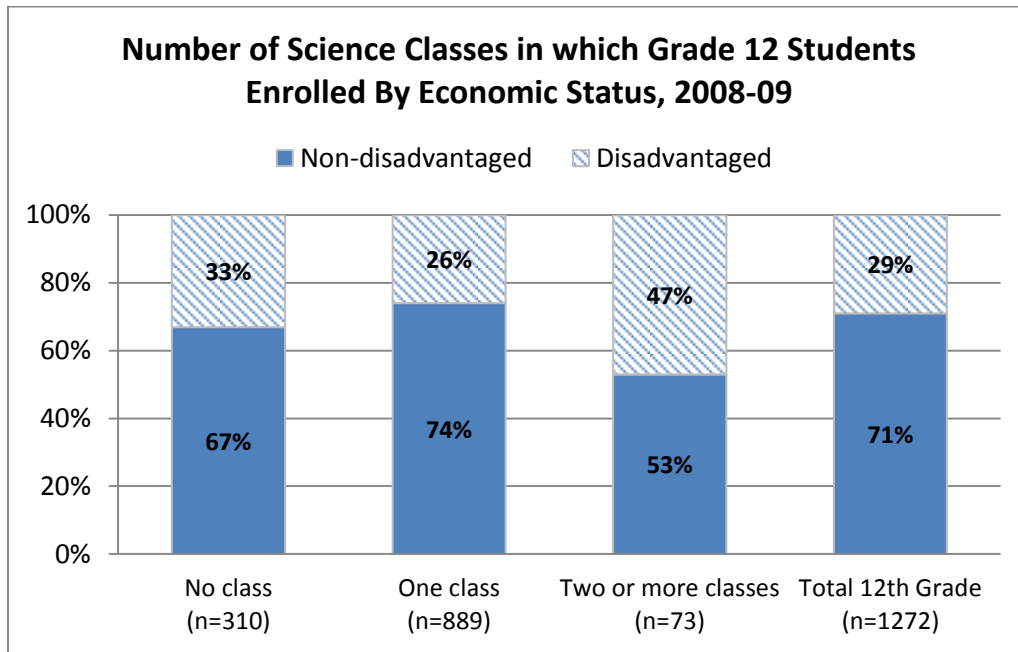


Figure 119: Grade 12 Science Course Enrollment Count by Economic Status, 2008–09



Figures 120 through 124 show the percentage of grade 12 students who enrolled in one Science class, two or more Science classes, or no Science classes by LEP status for each of the last five school years.

Figure 120: Grade 12 Science Course Enrollment Count by LEP Status, 2012–13

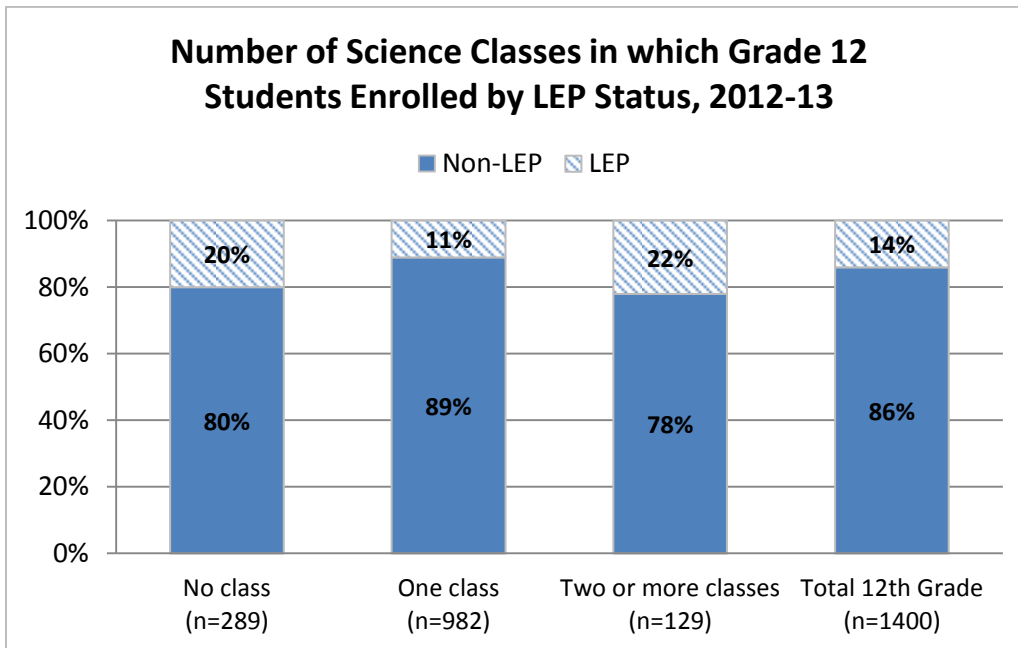


Figure 121: Grade 12 Science Course Enrollment Count by LEP Status, 2011–12

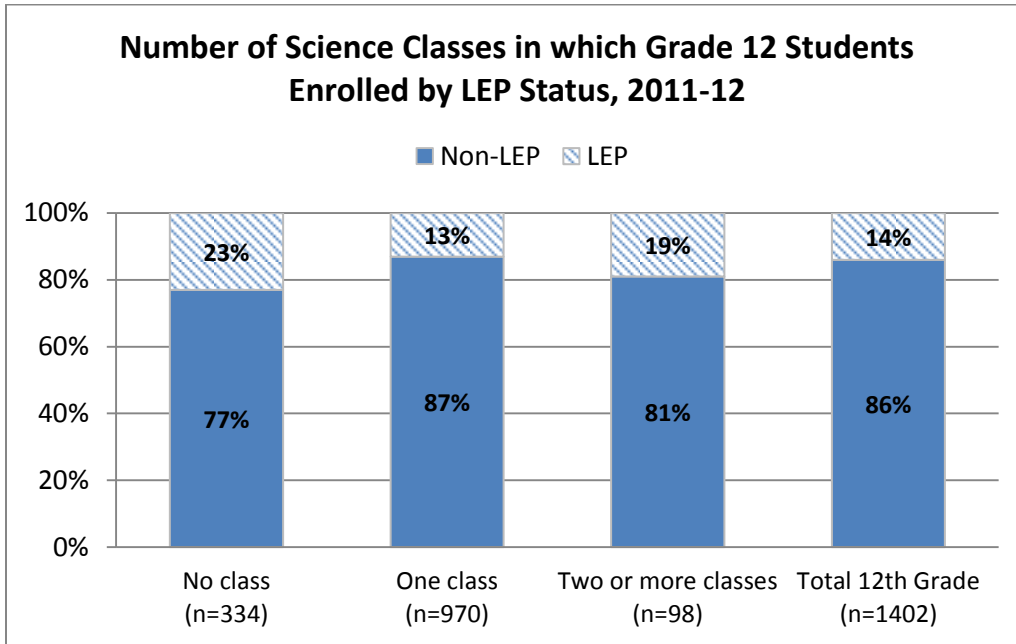


Figure 122: Grade 12 Science Course Enrollment Count by LEP Status, 2010–11

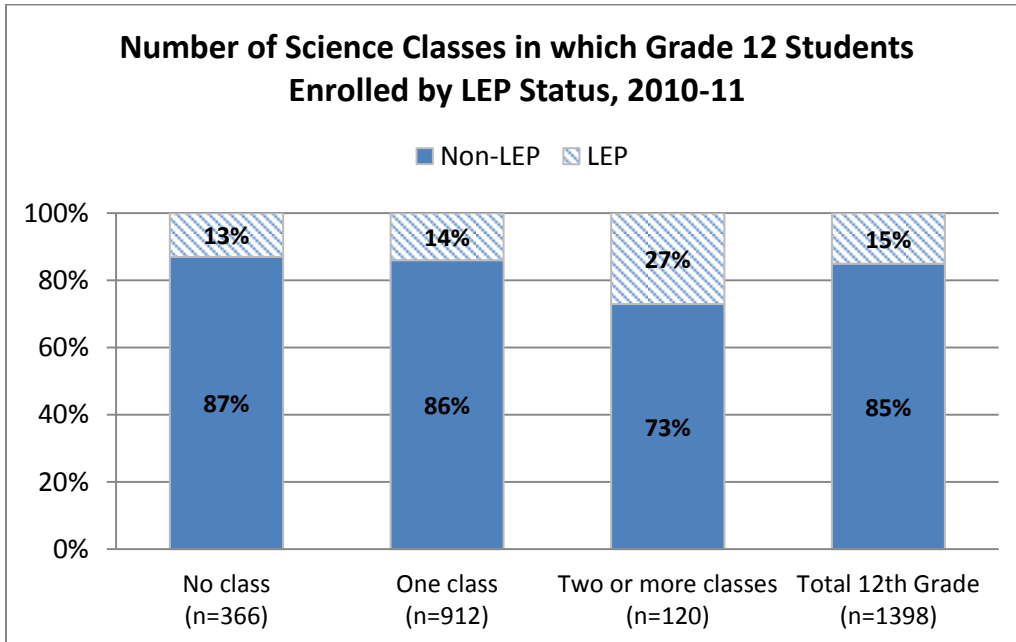


Figure 123: Grade 12 Science Course Enrollment Count by LEP Status, 2009–10

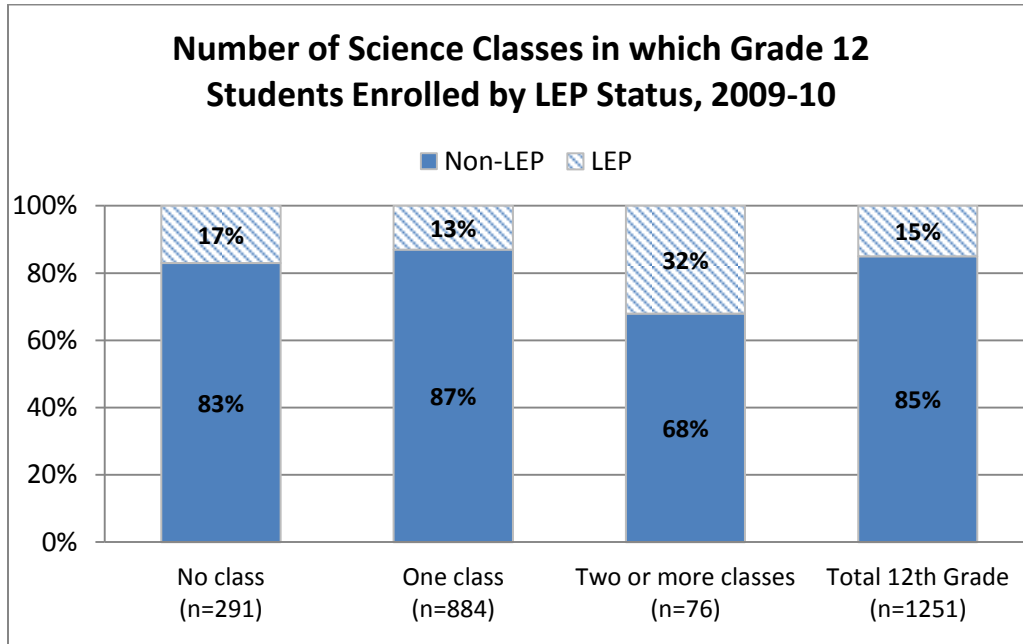
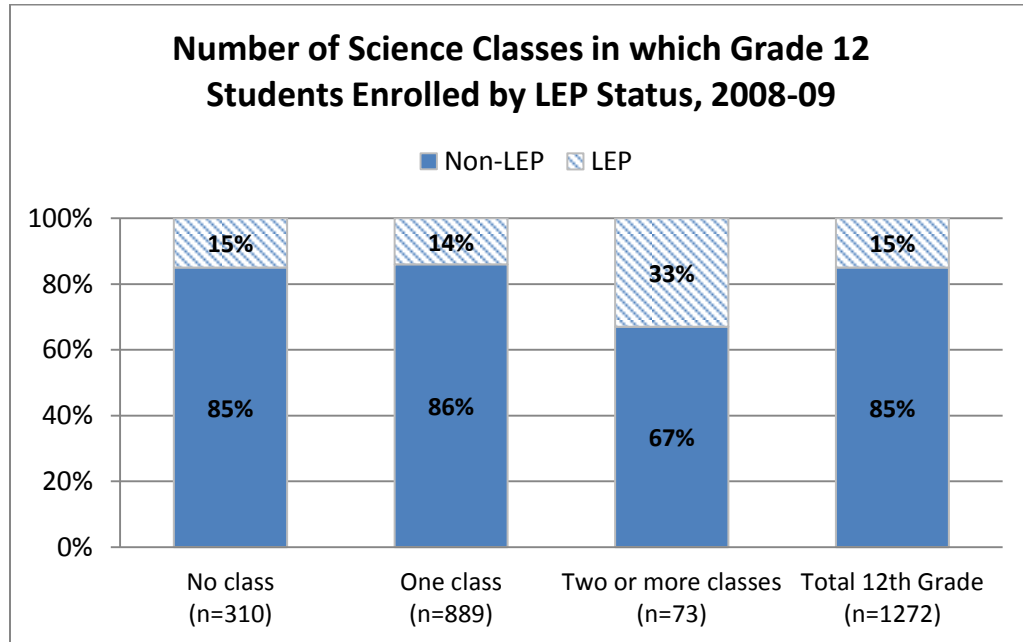


Figure 124: Grade 12 Science Course Enrollment Count by LEP Status, 2008–09



Figures 125 through 129 show the percentage of grade 12 students who enrolled in one Science class, two or more Science classes, or no Science classes by disability status for each of the last five school years.

Figure 125: Grade 12 Science Course Enrollment Count by Disability Status, 2012–13

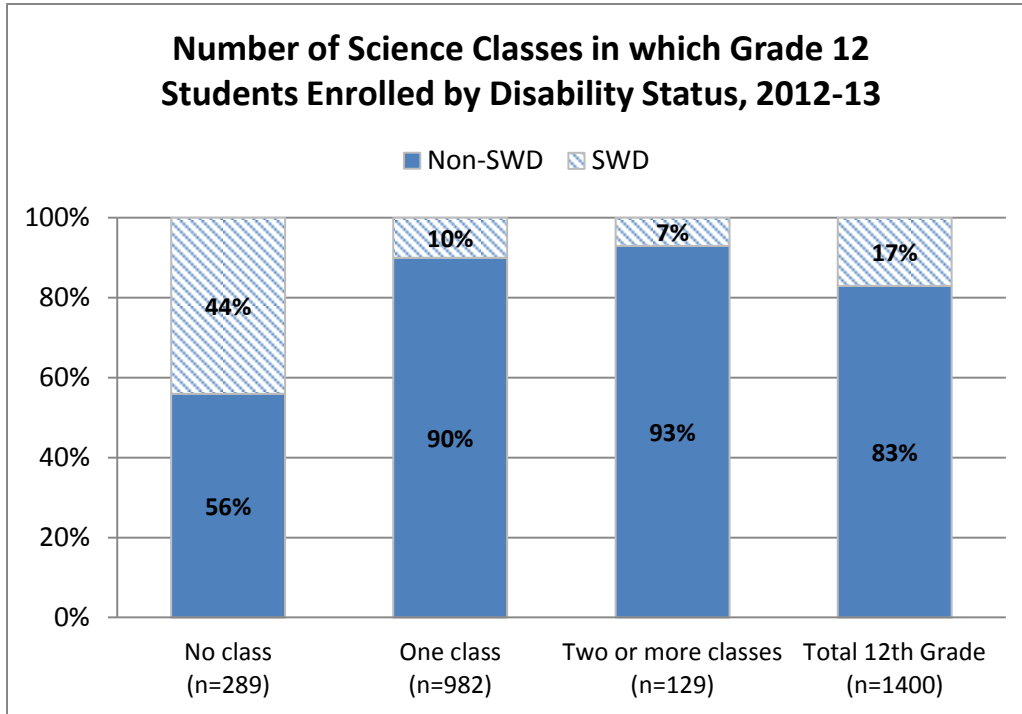


Figure 126: Grade 12 Science Course Enrollment Count by Disability Status, 2011–12

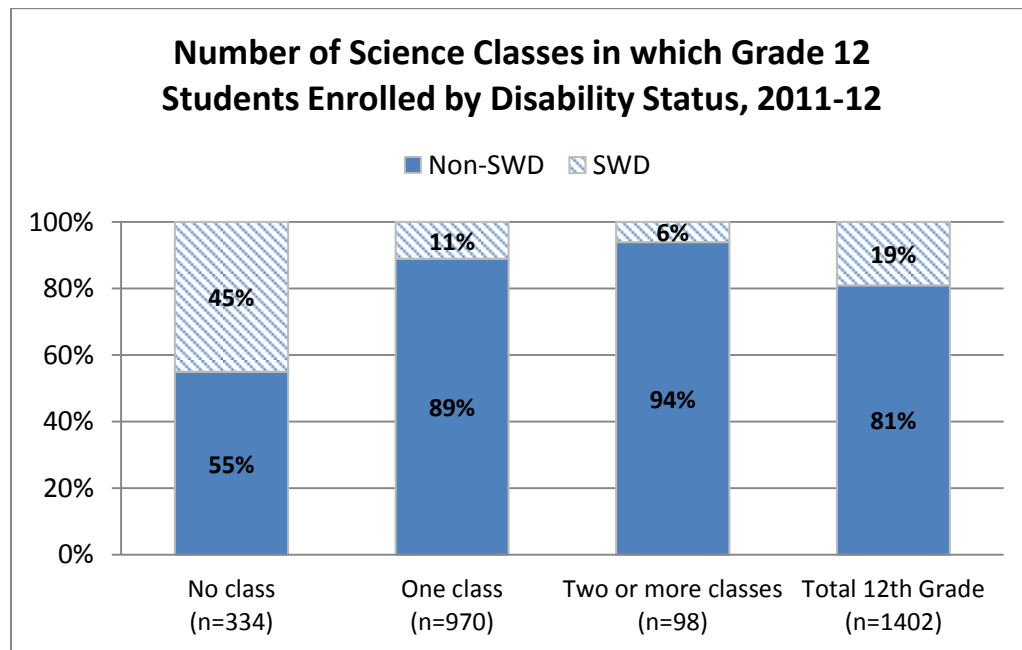


Figure 127: Grade 12 Science Course Enrollment Count by Disability Status, 2010–11

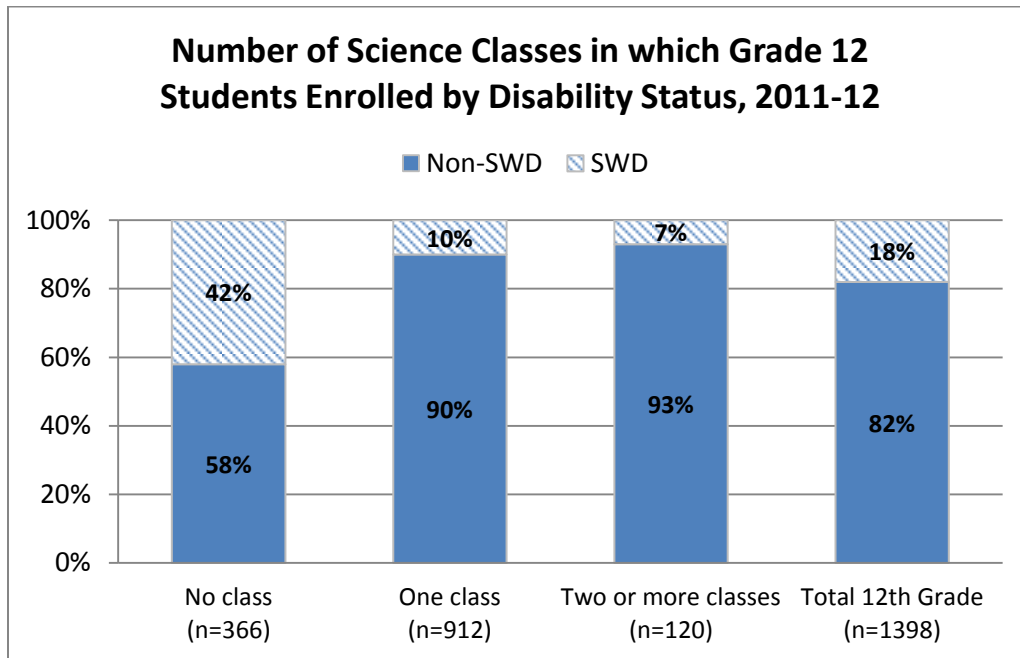


Figure 128: Grade 12 Science Course Enrollment Count by Disability Status, 2009–10

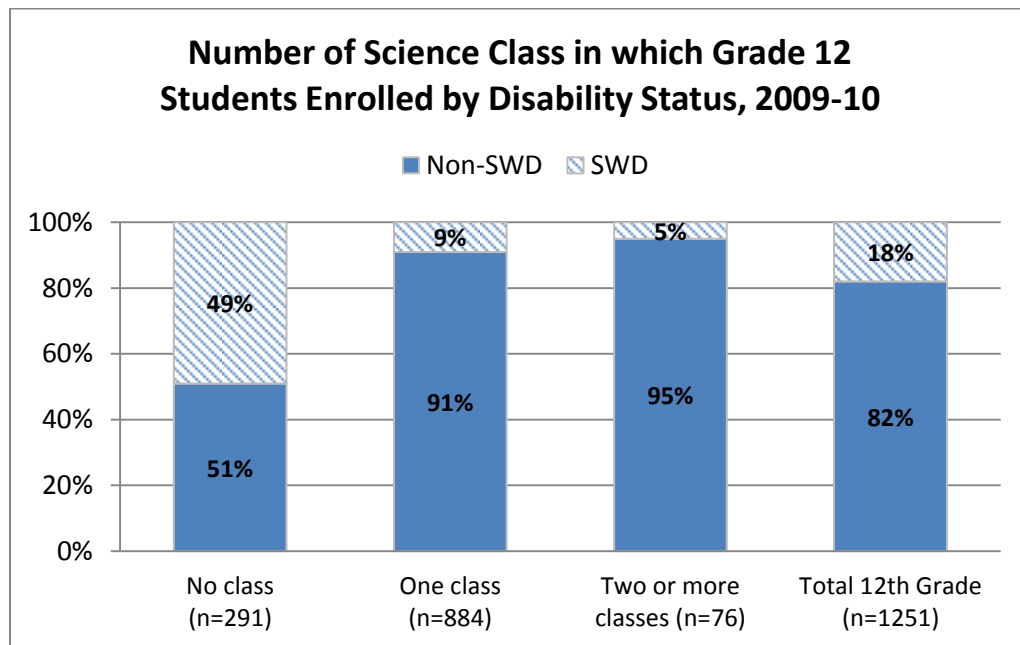


Figure 129: Grade 12 Science Course Enrollment Count by Disability Status, 2008–09

