



APPENDIX TABLE 1-25 

Science course enrollment of high school completers, by student and family characteristics: 2013

(Percentage distribution)

Student and family characteristic	General science	AP/IB or advanced science	No biology	General biology	AP/IB or advanced biology	No chemistry	General chemistry	AP/IB or advanced chemistry	No physics	General physics	AP/IB or advanced physics
All students	78.6	21.3	2.5	86.1	11.5	24.4	67.9	7.7	58.5	36.4	5.1
Sex											
Male	80.2	19.7	2.7	87.7	9.7	27.1	65.4	7.5	56.7	36.8	6.6
Female	77.1	22.8	2.2	84.5	13.2	21.9	70.2	7.9	60.3	36.0	3.7
Race or ethnicity											
White	76.6	23.3	2.4	85.2	12.4	23.9	67.3	8.8	58.3	36.3	5.4
Black	85.4	14.4	1.2	89.8	9.0	23.8	72.8	3.4	62.8	34.8	2.4
Hispanic ^a	84.0	15.9	2.9	89.2	7.9	27.1	68.0	4.8	59.6	36.9	3.5
Asian	48.5	51.5	3.8	66.1	30.1	10.1	65.2	24.7	32.8	47.4	19.8
Other ^b	91.5	7.7	2.7	91.1	6.1	33.0	63.2	3.7	74.4	25.1	0.4
Two or more races	81.1	18.9	2.8	86.9	10.3	28.1	65.6	6.4	62.0	33.2	4.7
SES ^c											
Lowest fifth	89.1	10.5	3.3	90.3	6.4	34.1	62.4	3.5	68.1	30.1	1.9
Middle three-fifths	81.2	18.6	2.1	87.5	10.4	25.8	68.0	6.2	60.8	35.2	4.0
Highest fifth	62.0	38.0	2.4	78.6	19.0	11.8	72.8	15.4	43.6	45.9	10.5



Student and family characteristic	General science	AP/IB or advanced science	No biology	General biology	AP/IB or advanced biology	No chemistry	General chemistry	AP/IB or advanced chemistry	No physics	General physics	AP/IB or advanced physics
Parents' highest education ^d											
Less than high school	87.0	12.5	3.1	89.6	7.3	36.6	59.3	4.1	62.8	36.4	0.8
High school diploma or equivalent	85.7	14.0	2.5	89.8	7.7	29.9	65.4	4.7	65.1	31.5	3.4
Associate's degree	84.0	15.9	2.3	87.8	9.9	28.4	66.9	4.7	65.0	32.3	2.7
Bachelor's degree or higher	67.5	32.4	2.2	81.2	16.6	15.0	72.3	12.7	47.8	43.7	8.5
Highest mathematics course in grade 9											
No mathematics	93.9	5.6	4.8	91.4	3.8	53.3	46.0	0.7	82.4	17.4	0.2
Basic mathematics or pre-algebra	92.4	7.1	4.4	90.5	5.1	58.2	40.2	1.6	78.6	20.6	0.7
Algebra 1	87.2	12.8	2.0	90.7	7.3	25.4	70.8	3.9	63.2	34.7	2.1
Above algebra 1	62.9	36.9	2.5	78.3	19.3	13.6	72.1	14.3	46.5	43.0	10.5
Grade 9 mathematics achievement											
Lowest fifth	93.9	5.8	3.3	92.6	4.2	46.3	52.4	1.3	77.8	21.9	0.3



Student and family characteristic	General science	AP/IB or advanced science	No biology	General biology	AP/IB or advanced biology	No chemistry	General chemistry	AP/IB or advanced chemistry	No physics	General physics	AP/IB or advanced physics
Middle three-fifths	83.9	16.0	2.5	88.4	9.1	25.4	70.0	4.6	62.1	35.3	2.6
Highest fifth	55.3	44.7	1.8	75.9	22.3	8.1	72.1	19.8	37.1	48.2	14.7
Students' educational expectations in grade 9											
High school or less	91.4	8.5	3.0	91.4	5.7	41.7	56.4	1.8	73.0	26.3	0.8
Some college	88.9	10.7	4.4	89.0	6.6	34.6	60.2	5.2	68.6	30.0	1.4
Bachelor's degree	78.6	21.3	1.8	88.2	10.1	21.5	70.7	7.8	54.9	39.7	5.5
Graduate or professional degree	70.0	29.8	2.0	81.7	16.3	14.7	74.0	11.3	52.3	40.1	7.7
Don't know	85.7	14.1	3.1	89.3	7.6	34.2	61.6	4.2	63.5	33.4	3.1
School											
Public	78.7	21.2	2.2	86.2	11.6	25.3	67.1	7.6	59.8	35.2	5.0
Private	74.5	25.5	3.1	85.4	11.5	8.5	81.4	10.1	38.5	54.2	7.3

AP/IB = Advanced Placement/International Baccalaureate; SES = socioeconomic status.

^a Hispanic may be any race. Asian, black, white, and other races refer to individuals who are not of Hispanic origin.

^b Other includes Alaska Native, American Indian, Native Hawaiian, Pacific Islander, more than one race, and those having origins in a race not listed.



^c SES is a composite variable derived from parental education level, parental occupation, and family income. The quintile measure divides the SES distribution into five equal quintile groups. Quintile 1 corresponds to the lowest one-fifth of the population, and quintile 5 corresponds to the highest. For this report, the middle three quintiles are combined into one category.

^d This represents the highest level of education achieved by either parent.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016) of High School Longitudinal Study of 2009 (HSL:09), National Center for Education Statistics.

Science and Engineering Indicators 2018