

TABLE 1-7

Students in grade 9 in fall 2009 who had enrolled in postsecondary education by the end of 2013 and declared a STEM major for their most recent undergraduate degree or certificate, by selected demographic characteristics, and mathematics and science preparation in high school: 2016

(Percent)

Demographic characteristic and mathematics and science preparation	Students who had enrolled in postsecondary education by the end of 2013		
	STEM major, total	Mathematics, science, computer science, and engineering	Social science and psychology
Total	41.5	30.8	11.2
<b>Demographic characteristic</b>			
Sex			
Male	43.6	34.1	10.0
Female	39.7	28.1	12.1
Race or ethnicity <sup>a</sup>			
White	40.9	31.7	9.9
Black or African American	39.6	27.5	12.0
Hispanic or Latino	42.2	28.0	14.5
Asian	54.2	42.8	12.0
Other	38.7	28.8	10.3
Highest level of parents' education <sup>b</sup>			
High school or less	38.7	27.7	11.6
Some college or associate's degree	37.9	28.7	9.4
Bachelor's or higher degree	44.7	33.7	11.6
Family socioeconomic status in quintile			
Lowest fifth	39.7	26.2	14.2
Middle three-fifths	39.2	29.9	9.8
Highest fifth	46.3	34.6	12.4
<b>Mathematics preparation</b>			
Mathematics achievement test score in quintile			
Lowest fifth	26.1	19.8	6.7
Middle three-fifths	36.4	25.7	11.1
Highest fifth	54.2	42.6	12.5
Highest mathematics coursetaking			
Algebra 1 or below or none	19.7	13.5	6.1
Geometry	31.7	23.6	8.1
Algebra 2 or trigonometry	31.1	20.5	10.8
Precalculus or statistics	41.1	29.0	12.5
Calculus or AP/IB mathematics	54.8	45.4	10.4
GPA in mathematics			
Less than 2.50	32.3	23.0	9.5
2.50–2.99	40.2	27.7	12.7
3.00–3.49	46.5	33.3	14.0
3.50 or higher	55.3	46.2	10.1
AP/IB mathematics credits			
0 credits	37.3	26.6	10.9
0.01–1.00 credit	51.5	40.6	12.2
More than 1.00 credit	67.5	57.8	11.2
Dual-enrollment mathematics credits			
0 credits	41.0	30.2	11.2
0.01–1.00 credit	48.3	38.4	10.0
More than 1.00 credit	55.9	47.2	10.4
<b>Science preparation</b>			
Highest science coursetaking			
General science or none <sup>c</sup>	33.9	23.0	11.0

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	STEM major, total	Mathematics, science, computer science, and engineering	Social science and psychology
Specialty science <sup>d</sup>	38.1	28.5	10.0
Advanced or AP/IB science	55.5	43.8	12.9
GPA in science			
Less than 2.50	30.7	22.2	8.6
2.50–2.99	39.2	28.1	11.3
3.00–3.49	46.4	32.6	14.7
3.50 or higher	53.8	43.7	11.1
AP/IB science credits			
0 credits	36.5	26.2	10.6
0.01–1.00 credit	53.0	39.9	14.7
More than 1.00 credit	70.3	61.2	10.4
Dual enrollment science credits			
0 credits	40.7	30.1	11.2
0.01–1.00 credit	63.0	49.7	13.3
More than 1.00 credit	62.6	56.8	6.8

AP/IB = Advanced Placement/International Baccalaureate; GPA = grade point average; STEM = science, technology, engineering, and mathematics.

<sup>a</sup> Other includes American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, and respondents having origins in more than one race. Hispanic may be any race; race categories exclude Hispanic origin.

<sup>b</sup> The highest level of education achieved by either of the parents or guardians in a two-parent household or by the only parent or guardian in a one-parent household.

<sup>c</sup> General science includes earth science; general life or physical science; first-year biology, chemistry, and physics; integrated and unified science; and general science courses such as origins of science and scientific research and design.

<sup>d</sup> Specialty science includes courses such as geology, botany, zoology, and independent studies in biology, chemistry, or physics.

**Note(s)**

STEM major considers both first and second majors declared by students for their most recent undergraduate degree or certificate. Estimates for mathematics, science, computer science, and engineering majors and social science and psychology majors do not add to total because some students declared majors in both areas. Columns do not add to 100% because each category represents the percentage of all students in that category who declared a STEM major. Social science courses study human society and social relationships and include such courses as anthropology, economics, political science, and sociology.

**Source(s)**

Radford AW, Fritch LB, Leu K, and Duprey M, *High School Longitudinal Study of 2009 (HSL:09) Second Follow-Up: A First Look at Fall 2009 Ninth-Graders in 2016*, NCES 2018-139 (2018); National Center for Science and Engineering Statistics, National Science Foundation, special tabulations (2018) of HSL:09, National Center for Education Statistics, Department of Education.