

Appendix table 1-10

High school graduates completing advanced S&E courses, by student and school characteristics and subject: Selected years, 1990–2005

(Percent)

Student characteristic	Advanced biology		Chemistry		Physics		Environmental science		Engineering or science technologies	
	Any	AP/IB	Any	AP/IB	Any	AP/IB	Any	AP/IB	Engineering	technologies
1990 graduates	25.9	5.0	43.4	NA	23.3	NA	3.9	NA	0.1	1.5
1994 graduates	33.6	4.8	49.0	NA	27.4	NA	4.7	NA	0.5	2.5
2000 graduates	38.8	6.5	55.2	3.1	34.1	2.4	8.6	0.7	1.3	6.3
2005 graduates	39.2	6.9	54.3	3.6	34.8	3.2	9.9	1.4	1.4	6.7
Sex										
Male	33.3	5.6	50.6	3.9	36.8	4.1	10.4	1.3	2.3	11.1
Female	44.7	8.0	57.8	3.4	32.8	2.4	9.5	1.6	0.6	2.6
Race/ethnicity										
White	42.0	7.2	54.9	3.7	37.0	3.3	10.1	1.6	1.4	7.3
Black	34.7	4.1	53.7	1.2	26.8	1.0	13.7	0.9	0.9	5.9
Hispanic	25.8	4.9	47.0	2.5	24.3	2.1	6.6	1.1	1.3	5.1
Asian/Pacific Islander	42.0	15.0	65.6	12.5	51.5	10.4	5.4	2.0	2.9	6.2
Other	43.6	3.9	53.1	4.8	30.8	2.1	6.3	1.0	1.5	2.1
School sector										
Public	38.4	6.5	52.5	3.3	32.6	2.9	9.9	1.3	1.6	7.3
Private	45.9	9.9	71.2	6.5	54.8	5.5	9.8	2.4	0.0	1.2
Community type										
Urban	36.3	7.3	59.5	5.1	35.2	3.6	7.1	1.6	2.0	5.4
Suburban	39.5	7.4	54.6	3.7	37.3	4.0	10.1	1.7	1.4	7.3
Rural	41.4	5.5	48.5	2.0	29.8	1.3	12.3	0.8	0.7	7.1
Size (enrollment)										
Small (1–599)	40.2	5.6	51.2	1.9	29.8	1.3	12.8	0.8	0.2	4.4
Medium (600–1,799)	42.0	7.5	54.0	3.9	35.4	3.3	9.9	1.5	1.5	6.8
Large (≥1,800)	35.8	7.1	56.9	4.2	35.7	4.1	8.9	1.8	2.4	7.8
Poverty rate^a										
Very low	50.3	10.7	67.0	4.9	49.8	7.9	9.6	2.9	1.7	9.7
Low	38.3	7.3	53.9	3.4	35.6	3.1	9.4	1.3	2.4	6.9
Medium	39.2	4.7	48.5	3.2	28.1	1.9	8.9	1.1	1.0	6.8
High	32.7	5.7	49.6	2.1	22.2	1.9	13.2	1.0	1.2	6.3

NA = not available

AP = Advanced Placement

IB = International Baccalaureate

^aStudents eligible for national free/reduced-priced lunch program: very low = ≤5%, low = 6–25%, medium = 26–50%, and high = 51–100%.

NOTES: AP/IB courses appear in two columns: alone in their specific column and along with other courses in “any” column. For some subjects, AP and IB courses not coded separately in 1994 or 1990. Slight differences in pre-2005 data from earlier editions of *Science and Engineering Indicators* result from minor refinements in defining graduates and some course categories. For information on courses and coding, see <http://nces.ed.gov/surveys/hst/courses.asp>, accessed 12 March 2007.

SOURCES: National Center for Education Statistics, National Assessment of Educational Progress, 1990, 1994, 2000, and 2005 High School Transcript Studies; and National Science Foundation, Division of Science Resources Statistics, special tabulations.