

Appendix table 2-1

**Institutions awarding S&E degrees, by field, degree level, and Carnegie institution type: 2002**

Degree and institution type	Institutions	S&E field					
		All S&E <sup>a</sup>	Physical/ biological/ agricultural sciences	Mathematics/ computer sciences	Social/ behavioral sciences	Engineering	Engineering technologies
Bachelor's .....	1,886	1,521	1,334	1,329	1,390	424	338
Research I .....	88	87	87	87	86	81	17
Research II .....	38	38	38	38	38	35	12
Doctorate-granting I .....	48	47	45	45	47	24	19
Doctorate-granting II .....	59	59	59	57	57	40	21
Comprehensive I .....	435	432	421	420	430	139	140
Comprehensive II .....	91	91	87	84	89	15	15
Liberal arts I .....	162	157	155	151	157	18	0
Liberal arts II .....	453	442	392	357	412	40	56
2 year .....	132	48	14	33	19	4	26
Specialized .....	343	101	27	49	45	20	24
Other .....	20	15	8	5	10	8	3
Not classified .....	17	4	1	3	0	0	5
Master's .....	1,424	826	490	465	676	286	84
Research I .....	87	87	87	84	85	81	9
Research II .....	38	38	38	38	38	35	4
Doctorate-granting I .....	49	49	45	45	47	22	9
Doctorate-granting II .....	59	58	55	48	53	35	7
Comprehensive I .....	435	351	202	195	303	84	48
Comprehensive II .....	90	37	9	8	24	4	2
Liberal arts I .....	65	23	9	6	18	2	0
Liberal arts II .....	236	68	8	12	52	4	2
2 year .....	6	2	0	1	1	0	0
Specialized .....	322	81	34	27	24	19	3
Other .....	34	30	3	0	30	0	0
Not classified .....	3	2	0	1	1	0	0
Doctoral .....	413	345	283	180	263	193	0
Research I .....	88	88	88	85	87	83	0
Research II .....	38	38	38	33	38	33	0
Doctorate-granting I .....	49	49	41	27	47	22	0
Doctorate-granting II .....	59	54	47	22	40	33	0
Comprehensive I .....	80	47	22	4	23	13	0
Comprehensive II .....	2	1	1	0	0	0	0
Liberal arts I .....	9	5	3	2	4	0	0
Specialized .....	69	47	40	4	11	6	0
Other .....	18	15	2	3	13	3	0
Not classified .....	1	1	1	0	0	0	0

<sup>a</sup>Engineering technologies data not included in S&E total.

SOURCES: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey; and National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Appendix table 2-2

**S&E degrees awarded, by degree level, Carnegie institution type, and field: 2002**

Degree and institution type	All fields	All S&E <sup>a</sup>	S&E field				
			Physical/ biological/ agricultural sciences	Mathematics/ computer sciences	Social/ behavioral sciences	Engineering	Engineering technologies
Bachelor's .....	1,305,730	415,611	97,128	61,408	196,436	60,639	15,406
Research I .....	306,220	136,531	32,780	12,559	61,894	29,298	1,695
Research II .....	103,772	36,334	8,979	3,372	16,202	7,781	1,203
Doctorate-granting I .....	83,514	23,133	4,624	3,640	11,222	3,647	1,066
Doctorate-granting II .....	88,322	29,922	6,537	4,529	12,868	5,988	833
Comprehensive I .....	413,836	107,488	24,929	18,597	54,774	9,188	5,515
Comprehensive II .....	41,378	9,988	2,235	2,321	4,872	560	483
Liberal arts I .....	56,908	27,916	8,073	2,620	16,723	500	0
Liberal arts II .....	138,739	32,132	7,277	8,502	15,463	890	1,711
2 year .....	11,171	1,428	221	839	308	60	946
Specialized .....	55,135	7,792	1,120	4,187	652	1,833	1,657
Other .....	5,655	2,919	351	216	1,458	894	47
Not classified .....	1,080	28	2	26	0	0	250
Master's .....	481,132	99,173	15,383	19,990	37,534	26,266	1,444
Research I .....	129,268	38,973	7,325	6,137	10,808	14,703	298
Research II .....	34,370	10,619	1,899	1,700	3,686	3,334	23
Doctorate-granting I .....	44,070	9,538	1,122	2,512	3,816	2,088	223
Doctorate-granting II .....	37,132	9,318	1,426	2,612	2,807	2,473	85
Comprehensive I .....	164,379	23,356	2,807	5,557	12,182	2,810	680
Comprehensive II .....	11,327	720	75	189	418	38	45
Liberal arts I .....	5,664	740	144	33	532	31	0
Liberal arts II .....	18,550	1,318	56	287	914	61	34
2 year .....	114	49	0	24	25	0	0
Specialized .....	33,021	2,615	501	933	453	728	56
Other .....	3,050	1,785	28	0	1,757	0	0
Not classified .....	187	142	0	6	136	0	0
Doctoral .....	39,964	24,571	10,574	1,725	7,201	5,071	0
Research I .....	25,731	17,005	7,561	1,263	4,352	3,829	0
Research II .....	4,657	2,870	1,207	186	902	575	0
Doctorate-granting I .....	4,265	1,837	445	159	999	234	0
Doctorate-granting II .....	2,225	1,318	503	94	402	319	0
Comprehensive I .....	971	302	108	11	116	67	0
Comprehensive II .....	3	1	1	0	0	0	0
Liberal arts I .....	105	26	13	3	10	0	0
Specialized .....	1,223	791	707	5	60	19	0
Other .....	761	398	6	4	360	28	0
Not classified .....	23	23	23	0	0	0	0

<sup>a</sup>Engineering technologies data not included in S&E total.

SOURCES: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey; and National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Appendix table 2-3  
**Enrollment in higher education, by Carnegie institution type: 1967–2001**

Year	All institutions	Research		Doctorate-granting		Comprehensive		Liberal arts		2 year	Specialized	Other	Not classified
		I	II	I	II	I	II	I	II				
1967.....	6,962,403	1,510,037	494,527	437,195	354,542	1,661,080	109,288	203,663	411,402	1,426,640	179,602	26,108	148,319
1968.....	7,570,446	1,564,981	517,844	455,455	389,249	1,813,653	119,785	209,398	431,035	1,710,382	187,032	27,560	144,072
1969.....	8,065,047	1,644,645	538,934	483,378	410,395	1,935,194	127,377	215,618	442,279	1,913,492	196,017	29,914	127,804
1970.....	8,648,124	1,748,776	570,365	509,450	436,660	2,071,351	137,056	221,996	451,198	2,181,141	209,561	32,862	77,708
1971.....	9,023,721	1,717,735	577,538	519,572	457,251	2,160,655	143,124	228,947	463,429	2,436,324	219,397	35,281	64,468
1972.....	9,296,311	1,768,282	581,139	521,856	466,371	2,183,621	142,270	233,939	462,885	2,611,113	229,979	31,451	63,405
1973.....	9,692,665	1,771,632	592,051	526,349	479,905	2,249,865	141,812	236,910	477,097	2,872,341	250,854	36,007	57,842
1974.....	10,319,864	1,826,768	612,510	545,772	497,963	2,324,124	153,182	238,868	494,426	3,272,382	271,195	34,553	48,121
1975.....	11,289,129	1,921,415	642,703	560,827	532,135	2,464,953	163,672	240,097	541,017	3,837,994	304,449	35,149	44,718
1976.....	11,120,093	1,893,269	613,142	568,570	526,247	2,415,834	168,445	240,730	551,890	3,755,371	307,803	33,066	45,726
1977.....	11,417,253	1,877,142	619,941	579,896	543,360	2,474,300	174,612	243,738	573,678	3,926,266	322,106	35,077	47,137
1978.....	11,391,377	1,864,590	626,213	581,343	542,558	2,452,812	178,964	251,607	579,494	3,910,980	334,175	34,665	33,976
1979.....	11,705,797	1,903,347	639,287	594,589	547,418	2,462,361	183,554	251,231	603,830	4,103,418	349,860	34,984	31,918
1980.....	12,234,644	1,947,444	655,874	604,769	570,666	2,531,409	188,971	260,645	633,712	4,404,276	371,317	35,861	29,700
1981.....	12,517,753	1,961,015	659,114	610,640	578,653	2,564,542	197,462	257,592	644,924	4,598,599	382,781	37,109	25,322
1982.....	12,588,520	1,933,340	650,946	606,683	582,638	2,570,690	200,403	252,029	651,192	4,671,136	398,143	37,800	33,520
1983.....	12,633,930	1,957,038	648,369	612,818	589,126	2,592,710	205,689	254,700	668,374	4,640,343	408,894	39,412	16,457
1984.....	12,400,392	1,952,748	644,056	604,742	591,400	2,576,072	203,725	253,604	656,099	4,456,709	410,816	38,571	11,850
1985.....	12,411,945	1,959,685	641,723	603,961	589,103	2,589,406	208,603	254,972	656,146	4,452,391	406,846	38,467	10,642
1986.....	12,670,121	1,988,839	653,298	609,772	590,694	2,629,336	210,267	257,998	657,695	4,600,773	409,815	39,097	22,537
1987.....	12,925,116	2,013,832	664,997	619,854	601,073	2,675,959	219,167	262,649	665,726	4,739,689	404,679	41,729	15,762
1988.....	13,201,196	2,029,004	685,709	631,050	608,610	2,738,209	227,912	269,134	693,026	4,843,313	422,564	39,942	12,723
1989.....	13,621,203	2,046,868	704,842	644,062	623,988	2,831,502	238,431	266,907	716,902	5,072,690	420,495	40,260	14,256
1990.....	13,983,255	2,080,412	714,852	657,824	635,833	2,926,402	243,690	268,223	732,654	5,220,767	442,899	42,149	17,550
1991.....	14,527,724	2,094,841	720,127	660,908	643,519	2,962,524	255,272	268,960	758,023	5,624,420	459,146	44,370	35,614
1992.....	14,657,118	2,089,045	714,126	655,985	649,549	2,964,105	259,253	266,735	781,247	5,695,378	483,070	46,705	51,920
1993.....	14,477,792	2,078,622	701,058	648,068	644,533	2,944,113	261,163	264,222	791,140	5,545,475	494,944	48,122	56,332
1994.....	14,449,476	2,079,559	694,454	639,831	650,816	2,927,198	266,854	264,737	797,156	5,499,655	502,771	49,764	76,681
1995.....	14,445,438	2,080,163	691,292	638,157	659,197	2,925,255	265,523	267,327	810,206	5,471,342	503,929	49,261	83,786
1996.....	14,481,915	2,082,713	684,608	632,288	661,015	2,926,182	267,133	269,258	814,037	5,494,333	515,296	50,151	84,901
1997.....	14,521,994	2,089,243	692,798	633,836	665,881	2,927,240	272,653	272,071	822,304	5,487,309	524,508	48,902	85,249
1998.....	14,835,140	2,109,348	701,177	636,460	673,467	2,960,640	276,662	275,722	839,075	5,679,793	543,075	46,968	92,753
2000.....	15,592,671	2,144,926	714,249	650,496	689,922	3,061,764	288,870	282,285	870,362	6,170,926	566,643	47,333	104,895
2001.....	15,749,338	2,192,261	734,580	663,147	719,045	3,129,957	298,090	284,240	886,180	6,029,905	612,249	51,849	147,835

NOTE: Data not available for 1999.

SOURCES: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey (various years); and National Science Foundation, Division of Science Resources Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

Appendix table 2-4

## U.S. population ages 20–24 years, by sex and race/ethnicity: Selected years, 1985–2020

Sex	All races		White		Asian/Pacific Islander		Black		Hispanic		American Indian/ Alaska Native	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Both sexes</b>												
1985 .....	20,694,001	100.0	15,393,698	74.4	456,493	2.2	2,642,882	12.8	2,042,290	9.9	158,638	0.8
1990 .....	18,613,683	100.0	13,142,195	70.6	603,986	3.2	2,423,770	13.0	2,295,364	12.3	148,368	0.8
1995 .....	17,664,652	100.0	11,979,033	67.8	714,402	4.0	2,457,636	13.9	2,356,723	13.3	156,858	0.9
2000 .....	18,516,000	100.0	12,167,000	65.7	744,000	4.0	2,638,000	14.2	2,801,000	15.1	166,000	0.9
2005 .....	20,159,000	100.0	13,022,000	64.6	894,000	4.4	2,827,000	14.0	3,224,000	16.0	192,000	1.0
2010 .....	21,152,000	100.0	13,253,000	62.7	995,000	4.7	3,099,000	14.7	3,599,000	17.0	206,000	1.0
2015 .....	21,747,000	100.0	12,973,000	59.7	1,205,000	5.5	3,127,000	14.4	4,251,000	19.5	191,000	0.9
2020 .....	21,020,000	100.0	12,130,000	57.7	1,322,000	6.3	2,855,000	13.6	4,528,000	21.5	185,000	0.9
<b>Male</b>												
1985 .....	10,183,871	100.0	7,555,833	74.2	232,410	2.3	1,232,681	12.1	1,083,161	10.6	79,786	0.8
1990 .....	9,277,563	100.0	6,505,454	70.1	308,080	3.3	1,142,368	12.3	1,246,935	13.4	74,726	0.8
1995 .....	8,825,001	100.0	5,973,789	67.7	355,023	4.0	1,186,814	13.4	1,230,194	13.9	79,181	0.9
2000 .....	9,432,000	100.0	6,226,000	66.0	366,000	3.9	1,304,000	13.8	1,454,000	15.4	83,000	0.9
2005 .....	10,268,000	100.0	6,661,000	64.9	439,000	4.3	1,403,000	13.7	1,670,000	16.3	95,000	0.9
2010 .....	10,777,000	100.0	6,776,000	62.9	495,000	4.6	1,543,000	14.3	1,860,000	17.3	103,000	1.0
2015 .....	11,077,000	100.0	6,628,000	59.8	602,000	5.4	1,559,000	14.1	2,193,000	19.8	95,000	0.9
2020 .....	10,698,000	100.0	6,191,000	57.9	658,000	6.2	1,425,000	13.3	2,332,000	21.8	92,000	0.9
<b>Female</b>												
1985 .....	10,510,130	100.0	7,837,865	74.6	224,083	2.1	1,410,201	13.4	959,129	9.1	78,852	0.8
1990 .....	9,336,120	100.0	6,636,741	71.1	295,906	3.2	1,281,402	13.7	1,048,429	11.2	73,642	0.8
1995 .....	8,839,651	100.0	6,005,244	67.9	359,379	4.1	1,270,822	14.4	1,126,529	12.7	77,677	0.9
2000 .....	9,084,000	100.0	5,942,000	65.4	379,000	4.2	1,334,000	14.7	1,347,000	14.8	83,000	0.9
2005 .....	9,889,000	100.0	6,360,000	64.3	454,000	4.6	1,424,000	14.4	1,554,000	15.7	97,000	1.0
2010 .....	10,375,000	100.0	6,477,000	62.4	500,000	4.8	1,556,000	15.0	1,739,000	16.8	103,000	1.0
2015 .....	10,670,000	100.0	6,345,000	59.5	603,000	5.7	1,568,000	14.7	2,058,000	19.3	96,000	0.9
2020 .....	10,321,000	100.0	5,938,000	57.5	664,000	6.4	1,430,000	13.9	2,196,000	21.3	93,000	0.9

SOURCES: U.S. Census Bureau, Population Division, 1990 Census, <http://www.census.gov/population/estimates/nation>; and Population Projections Program, Projections of the Resident Population by Age, Sex, Race, and Hispanic Origin: 1999 to 2100 (2000), [http://www.census.gov/population/projections/nation/detail/d2001\\_10.pdf](http://www.census.gov/population/projections/nation/detail/d2001_10.pdf).

Science and Engineering Indicators 2006

## Enrollment in major types of institutions, by citizenship and race/ethnicity: Selected years, 1992–2001

Citizenship and race/ethnicity	All institutions	Research	Doctorate granting	Master's	Liberal arts	Two year	Specialized	Other/not classified
	Number							
<b>1992</b>								
All students .....	14,657,118	2,803,171	1,305,534	3,223,358	1,047,982	5,695,378	483,070	98,625
U.S. citizen/permanent resident .....	14,208,630	2,627,450	1,250,647	3,144,173	1,023,798	5,603,791	461,780	96,991
White .....	10,876,214	2,144,509	1,003,566	2,408,743	795,838	4,100,032	351,524	72,002
Asian/Pacific Islander .....	704,645	182,880	52,485	123,445	24,996	294,689	23,264	2,886
Underrepresented minority .....	2,627,771	300,061	194,596	611,985	202,964	1,209,070	86,992	22,103
Temporary resident .....	448,488	175,721	54,887	79,185	24,184	91,587	21,290	1,634
Unknown citizenship/race/ethnicity .....	NA	NA	NA	NA	NA	NA	NA	NA
<b>1996</b>								
All students .....	14,481,915	2,767,321	1,293,303	3,193,315	1,083,295	5,494,333	515,296	135,052
U.S. citizen/permanent resident .....	14,016,305	2,589,062	1,235,022	3,109,475	1,058,668	5,401,456	489,603	133,019
White .....	10,226,732	2,013,170	940,583	2,283,751	810,598	3,731,434	355,132	92,064
Asian/Pacific Islander .....	832,413	231,924	63,983	142,626	29,339	330,023	30,698	3,820
Underrepresented minority .....	2,957,160	343,968	230,456	683,098	218,731	1,339,999	103,773	37,135
Temporary resident .....	465,610	178,259	58,281	83,840	24,627	92,877	25,693	2,033
Unknown citizenship/race/ethnicity .....	NA	NA	NA	NA	NA	NA	NA	NA
<b>2001</b>								
All students .....	15,749,338	2,926,841	1,382,192	3,428,047	1,170,420	6,029,905	612,249	199,684
U.S. citizen/permanent resident .....	15,188,940	2,707,162	1,307,250	3,323,705	1,141,442	5,928,227	583,955	197,199
White .....	9,909,525	1,940,292	897,096	2,202,231	799,032	3,606,791	344,236	119,847
Asian/Pacific Islander .....	930,981	246,191	72,502	150,886	30,292	390,020	35,398	5,692
Underrepresented minority .....	3,446,570	360,000	259,973	757,520	251,384	1,620,224	133,442	64,027
Temporary resident .....	560,398	219,679	74,942	104,342	28,978	101,678	28,294	2,485
Unknown citizenship/race/ethnicity .....	901,864	160,679	77,679	213,068	60,734	311,192	70,879	7,633
Percent distribution								
<b>1992</b>								
All students .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizen/permanent resident .....	96.9	93.7	95.8	97.5	97.7	98.4	95.6	98.3
White .....	74.2	76.5	76.9	74.7	75.9	72.0	72.8	73.0
Asian/Pacific Islander .....	4.8	6.5	4.0	3.8	2.4	5.2	4.8	2.9
Underrepresented minority .....	17.9	10.7	14.9	19.0	19.4	21.2	18.0	22.4
Temporary resident .....	3.1	6.3	4.2	2.5	2.3	1.6	4.4	1.7
Unknown citizenship/race/ethnicity .....	NA	NA	NA	NA	NA	NA	NA	NA
<b>1996</b>								
All students .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizen/permanent resident .....	96.8	93.6	95.5	97.4	97.7	98.3	95.0	98.5
White .....	70.6	72.7	72.7	71.5	74.8	67.9	68.9	68.2
Asian/Pacific Islander .....	5.7	8.4	4.9	4.5	2.7	6.0	6.0	2.8
Underrepresented minority .....	20.4	12.4	17.8	21.4	20.2	24.4	20.1	27.5
Temporary resident .....	3.2	6.4	4.5	2.6	2.3	1.7	5.0	1.5
Unknown citizenship/race/ethnicity .....	NA	NA	NA	NA	NA	NA	NA	NA

## Enrollment in major types of institutions, by citizenship and race/ethnicity: Selected years, 1992–2001

Citizenship and race/ethnicity	All institutions	Research	Doctorate granting	Master's	Liberal arts	Two year	Specialized	Other/not classified
2001								
All students .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizen/permanent resident.....	96.4	92.5	94.6	97.0	97.5	98.3	95.4	98.8
White .....	62.9	66.3	64.9	64.2	68.3	59.8	56.2	60.0
Asian/Pacific Islander .....	5.9	8.4	5.2	4.4	2.6	6.5	5.8	2.9
Underrepresented minority .....	21.9	12.3	18.8	22.1	21.5	26.9	21.8	32.1
Temporary resident .....	3.6	7.5	5.4	3.0	2.5	1.7	4.6	1.2
Unknown citizenship/race/ethnicity .....	5.7	5.5	5.6	6.2	5.2	5.2	11.6	3.8
Percent distribution								
1992								
All students .....	100.0	19.1	8.9	22.0	7.1	38.9	3.3	0.7
U.S. citizen/permanent resident.....	100.0	18.5	8.8	22.1	7.2	39.4	3.2	0.7
White .....	100.0	19.7	9.2	22.1	7.3	37.7	3.2	0.7
Asian/Pacific Islander .....	100.0	26.0	7.4	17.5	3.5	41.8	3.3	0.4
Underrepresented minority .....	100.0	11.4	7.4	23.3	7.7	46.0	3.3	0.8
Temporary resident .....	100.0	39.2	12.2	17.7	5.4	20.4	4.7	0.4
Unknown citizenship/race/ethnicity .....	NA	NA	NA	NA	NA	NA	NA	NA
1996								
All students .....	100.0	19.1	8.9	22.1	7.5	37.9	3.6	0.9
U.S. citizen/permanent resident.....	100.0	18.5	8.8	22.2	7.6	38.5	3.5	0.9
White .....	100.0	19.7	9.2	22.3	7.9	36.5	3.5	0.9
Asian/Pacific Islander .....	100.0	27.9	7.7	17.1	3.5	39.6	3.7	0.5
Underrepresented minority .....	100.0	11.6	7.8	23.1	7.4	45.3	3.5	1.3
Temporary resident .....	100.0	38.3	12.5	18.0	5.3	19.9	5.5	0.4
Unknown citizenship/race/ethnicity .....	NA	NA	NA	NA	NA	NA	NA	NA
2001								
All students .....	100.0	18.6	8.8	21.8	7.4	38.3	3.9	1.3
U.S. citizen/permanent resident.....	100.0	17.8	8.6	21.9	7.5	39.0	3.8	1.3
White .....	100.0	19.6	9.1	22.2	8.1	36.4	3.5	1.2
Asian/Pacific Islander .....	100.0	26.4	7.8	16.2	3.3	41.9	3.8	0.6
Underrepresented minority .....	100.0	10.4	7.5	22.0	7.3	47.0	3.9	1.9
Temporary resident .....	100.0	39.2	13.4	18.6	5.2	18.1	5.0	0.4
Unknown citizenship/race/ethnicity .....	100.0	17.8	8.6	23.6	6.7	34.5	7.9	0.8

NA = not available

NOTE: Underrepresented minority includes blacks, Hispanics, and American Indians/Alaska Natives.

SOURCES: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey (various years); and National Science Foundation, Division of Science Resources Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Appendix table 2-6

**Freshmen intending S&E major, by sex, race/ethnicity, and field: Selected years, 1983–2004**

(Percent distribution)

(Page 1 of 4)

Sex, race/ethnicity, and field	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003	2004
All intending S&E major .....	35.0	32.6	28.9	30.6	32.2	33.3	32.4	34.2	33.7	33.1	33.5	33.5	32.6	33.1
Physical sciences .....	2.2	2.2	1.8	2.0	2.1	2.5	2.3	2.1	1.9	1.8	1.9	2.0	2.0	2.3
Biological/agricultural sciences.....	5.7	5.6	5.1	5.3	6.6	8.2	9.4	9.1	8.2	7.5	7.5	7.8	7.7	8.3
Mathematics/statistics.....	1.2	1.1	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7
Computer sciences.....	7.7	4.1	2.3	2.3	2.4	2.1	3.0	4.1	5.1	5.2	4.7	3.1	2.4	2.0
Social/behavioral sciences.....	6.7	8.6	9.4	10.3	9.5	9.7	8.9	8.5	8.9	9.2	9.6	10.4	10.5	10.2
Engineering.....	11.5	11.0	9.4	9.9	10.8	10.0	8.1	9.7	9.0	8.7	9.1	9.5	9.3	9.6
Male.....	46.2	41.9	36.5	38.2	40.1	41.1	39.2	42.4	42.4	41.4	42.2	41.2	39.6	40.8
Physical sciences.....	3.1	3.1	2.7	2.8	2.9	3.2	2.8	2.7	2.4	2.3	2.4	2.4	2.5	2.9
Biological/agricultural sciences.....	6.8	6.1	5.6	6.0	7.0	8.8	9.2	8.4	7.3	6.5	6.5	6.6	6.7	7.4
Mathematics/statistics.....	1.2	1.1	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.8	0.7	0.8	0.9	1.0
Computer sciences.....	9.4	5.5	3.5	3.4	3.4	3.5	5.1	7.1	9.1	9.3	8.8	6.0	4.7	4.1
Social/behavioral sciences.....	5.8	7.2	7.0	7.7	7.0	7.5	6.7	6.3	6.4	6.6	7.1	7.5	7.7	7.5
Engineering.....	19.9	18.9	16.8	17.4	18.9	17.3	14.6	17.2	16.5	15.9	16.7	17.9	17.1	17.9
Female.....	25.0	24.6	22.3	24.5	25.3	26.8	27.1	27.7	26.8	26.2	26.7	26.7	26.2	26.3
Physical sciences.....	1.3	1.4	1.1	1.3	1.5	1.9	1.8	1.6	1.5	1.5	1.5	1.6	1.7	1.9
Biological/agricultural sciences.....	4.8	5.3	4.8	4.9	6.2	7.7	9.6	9.7	9.0	7.9	8.3	8.5	8.5	9.0
Mathematics/statistics.....	1.1	1.1	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.6	0.6
Computer sciences.....	6.2	2.8	1.4	1.4	1.5	1.1	1.3	1.7	1.8	1.9	1.6	0.9	0.5	0.4
Social/behavioral sciences.....	7.8	10.2	11.3	12.8	11.6	11.5	11.0	10.5	11.0	11.3	11.7	12.0	12.0	11.5
Engineering.....	3.8	3.8	2.9	3.3	3.7	3.9	2.7	3.5	2.9	3.0	3.0	3.0	2.9	2.9
White.....	34.5	31.7	27.8	29.6	30.5	31.7	30.9	32.8	31.7	30.6	31.9	31.3	30.1	30.1
Physical sciences.....	2.4	2.3	1.9	2.0	2.3	2.6	2.5	2.4	2.0	2.0	2.1	2.1	2.1	2.3
Biological/agricultural sciences.....	5.5	5.3	4.7	5.1	6.0	7.6	9.0	8.6	7.9	6.6	7.0	7.0	6.4	7.0
Mathematics/statistics.....	1.2	1.1	0.9	0.9	0.8	0.9	0.7	0.7	0.6	0.7	0.7	0.8	0.8	0.8
Computer sciences.....	7.0	3.4	2.1	1.9	1.8	1.8	2.5	3.5	4.1	4.3	4.0	2.8	2.3	1.9
Social/behavioral sciences.....	6.8	8.9	9.3	10.1	9.3	9.4	8.7	8.6	8.6	8.7	9.1	9.4	9.6	9.1
Engineering.....	11.6	10.7	8.9	9.6	10.3	9.4	7.5	9.0	8.5	8.3	9.0	9.2	8.9	9.0
Male.....	45.8	41.0	35.6	37.4	38.8	39.8	37.5	40.6	40.0	39.6	41.0	39.6	38.3	38.7
Physical sciences.....	3.4	3.2	2.8	3.0	3.1	3.3	2.9	3.0	2.4	2.5	2.6	2.8	2.8	3.0
Biological/agricultural sciences.....	6.3	5.8	5.3	5.5	6.5	8.1	8.6	7.8	7.1	6.0	6.1	6.2	5.8	6.4
Mathematics/statistics.....	1.3	1.2	1.0	1.0	0.9	0.9	0.8	0.7	0.7	0.9	0.7	0.9	0.9	1.0
Computer sciences.....	9.1	5.1	3.3	3.1	3.0	3.2	4.6	6.4	7.7	8.2	7.7	5.5	4.7	3.9
Social/behavioral sciences.....	5.6	7.2	7.0	7.8	7.1	7.6	6.9	6.3	6.3	6.7	7.0	7.2	7.7	7.4
Engineering.....	20.1	18.5	16.2	17.0	18.2	16.7	13.7	16.4	15.8	15.3	16.9	17.0	16.4	17.0
Female.....	23.5	22.9	20.9	22.7	23.1	25.2	25.3	25.8	24.9	23.8	24.2	23.9	23.9	23.9
Physical sciences.....	1.3	1.3	1.2	1.3	1.4	2.0	1.9	1.8	1.6	1.5	1.5	1.5	1.7	1.9
Biological/agricultural sciences.....	4.5	4.9	4.3	4.5	5.7	7.3	9.1	9.3	8.8	7.5	7.6	7.6	7.4	7.7
Mathematics/statistics.....	1.2	1.1	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.7
Computer sciences.....	5.1	1.9	0.9	0.8	0.8	0.6	0.7	1.0	1.1	1.1	0.8	0.5	0.4	0.3
Social/behavioral sciences.....	7.8	10.5	11.2	12.5	11.4	11.2	10.5	10.1	10.4	10.6	11.1	11.1	11.2	10.6
Engineering.....	3.6	3.2	2.4	2.8	3.0	3.4	2.4	3.0	2.4	2.5	2.5	2.5	2.5	2.7

Appendix table 2-6

**Freshmen intending S&E major, by sex, race/ethnicity, and field: Selected years, 1983–2004**

(Percent distribution)

Sex, race/ethnicity, and field	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003	2004
Asian American .....	52.6	51.3	47.5	44.0	44.6	42.8	41.5	45.9	47.5	44.5	42.5	43.2	44.2	45.5
Physical sciences .....	3.9	4.2	2.9	2.3	2.5	2.5	2.1	2.0	1.6	1.5	1.7	1.9	2.1	2.4
Biological/agricultural sciences .....	11.0	11.6	12.1	9.8	12.2	13.4	13.2	11.8	11.2	10.2	10.1	11.9	14.6	16.1
Mathematics/statistics .....	1.7	1.1	0.9	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.7	0.8	0.9	0.9
Computer sciences .....	8.8	3.0	3.7	2.4	3.5	2.7	5.2	7.9	12.6	11.0	9.3	4.6	3.2	2.2
Social/behavioral sciences .....	5.6	7.5	8.2	9.4	8.4	8.8	7.1	6.8	6.7	7.4	7.3	8.1	8.6	8.8
Engineering .....	21.6	23.9	19.7	19.3	17.2	14.7	13.3	16.8	14.8	13.8	13.4	15.9	14.8	15.1
Male .....	63.6	61.0	56.0	52.7	55.3	51.1	50.3	57.5	60.0	56.3	54.3	55.0	53.4	54.3
Physical sciences .....	4.9	5.5	3.2	3.0	3.2	2.8	2.8	2.2	2.0	1.7	1.8	2.2	2.7	2.6
Biological/agricultural sciences .....	12.1	10.2	11.1	10.0	12.2	13.4	12.2	9.9	8.9	8.5	8.4	10.2	13.0	14.1
Mathematics/statistics .....	1.3	1.2	0.7	0.6	0.8	0.6	0.6	0.6	0.6	0.7	0.7	0.9	1.1	1.0
Computer sciences .....	9.0	3.1	4.6	3.3	5.4	4.2	8.0	12.5	19.4	17.8	15.5	8.1	5.4	4.1
Social/behavioral sciences .....	3.9	6.4	5.4	5.7	5.8	6.5	4.7	4.9	4.8	5.5	5.6	6.1	6.3	6.7
Engineering .....	32.4	34.6	31.0	30.1	27.9	23.6	22.0	27.4	24.3	22.1	22.3	27.5	24.9	25.8
Female .....	40.8	40.9	38.1	34.7	34.0	34.5	32.9	34.3	35.9	34.5	32.8	33.5	35.9	37.6
Physical sciences .....	2.7	2.9	2.4	1.9	1.8	2.2	1.6	1.5	1.4	1.3	1.5	1.6	1.8	2.0
Biological/agricultural sciences .....	10.0	13.1	13.0	9.4	12.3	13.5	14.0	13.4	13.3	11.7	12.0	13.5	16.1	18.0
Mathematics/statistics .....	2.0	1.2	1.2	1.0	0.8	0.8	0.6	0.6	0.6	0.7	0.7	0.8	0.7	0.8
Computer sciences .....	8.5	2.8	2.6	1.5	1.6	1.4	2.5	3.4	6.2	5.2	4.0	1.6	1.0	0.6
Social/behavioral sciences .....	7.6	8.7	11.3	13.4	10.9	10.7	9.3	8.8	8.5	8.9	8.9	9.9	10.6	10.6
Engineering .....	10.0	12.2	7.6	7.5	6.6	5.9	4.9	6.6	5.9	6.7	5.7	6.1	5.7	5.6
Black .....	35.0	33.3	31.0	32.0	35.5	37.9	35.8	38.0	37.2	36.8	35.2	35.4	33.6	34.3
Physical sciences .....	1.1	1.6	1.0	1.2	1.2	1.6	1.6	1.2	1.2	1.2	1.0	1.2	1.4	1.8
Biological/agricultural sciences .....	4.2	4.2	4.1	4.6	5.3	7.4	8.7	8.8	7.9	7.5	7.8	8.4	8.6	9.5
Mathematics/statistics .....	0.6	0.7	0.6	0.4	0.6	0.6	0.7	0.6	0.6	0.5	0.4	0.5	0.4	0.5
Computer sciences .....	13.3	10.4	5.2	5.9	5.6	5.4	6.3	7.1	8.4	8.1	7.4	4.7	3.3	3.3
Social/behavioral sciences .....	7.0	6.8	9.6	10.6	10.4	10.0	9.9	10.3	11.4	11.1	12.5	12.0	12.2	11.5
Engineering .....	8.8	9.6	10.5	9.3	12.4	12.9	8.6	10.0	7.7	8.4	6.1	8.6	7.7	7.7
Male .....	41.3	39.1	36.8	36.3	41.3	44.6	40.5	43.6	41.7	41.7	37.7	40.2	36.7	38.2
Physical sciences .....	1.3	1.9	1.3	1.1	1.1	2.0	1.7	1.6	1.4	1.4	1.0	1.3	1.4	1.7
Biological/agricultural sciences .....	4.9	3.9	4.1	4.2	4.9	6.8	7.6	7.4	5.8	5.8	5.6	5.8	5.7	7.5
Mathematics/statistics .....	0.8	0.8	0.7	0.4	0.6	0.6	0.8	0.5	0.6	0.4	0.4	0.4	0.7	0.6
Computer sciences .....	13.5	11.2	6.3	6.9	6.0	6.6	8.5	9.8	13.2	12.4	12.2	8.2	6.1	6.2
Social/behavioral sciences .....	5.3	5.4	6.9	7.7	7.4	7.4	6.4	6.6	7.4	6.5	7.4	8.0	8.1	7.1
Engineering .....	15.5	15.9	17.5	16.0	21.3	21.2	15.5	17.7	13.3	15.2	11.1	16.5	14.7	15.1
Female .....	30.1	28.9	26.8	29.1	31.7	34.0	32.8	34.7	34.0	34.3	33.1	32.5	31.5	31.9
Physical sciences .....	0.9	1.3	0.9	1.1	1.2	1.7	1.5	1.1	1.0	1.2	1.0	1.3	1.4	1.9
Biological/agricultural sciences .....	3.5	4.5	3.9	4.7	5.7	7.8	9.4	9.7	9.2	8.6	9.0	10.0	10.2	10.9
Mathematics/statistics .....	0.4	0.6	0.6	0.5	0.6	0.6	0.7	0.8	0.6	0.5	0.4	0.5	0.3	0.4
Computer sciences .....	13.3	9.9	4.4	5.2	5.3	4.6	4.8	5.2	5.3	5.5	4.3	2.5	1.7	1.5
Social/behavioral sciences .....	7.9	7.7	11.2	12.4	12.3	11.7	12.0	12.8	13.8	14.1	15.3	14.5	14.7	14.3
Engineering .....	4.1	4.9	5.8	5.2	6.6	7.6	4.4	5.1	4.1	4.4	3.1	3.7	3.2	2.9

Appendix table 2-6

**Freshmen intending S&E major, by sex, race/ethnicity, and field: Selected years, 1983–2004**

(Percent distribution)

(Page 3 of 4)

Sex, race/ethnicity, and field	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003	2004
<b>Mexican American/Chicano and</b>														
Puerto Rican American .....	37.6	38.9	35.1	33.5	30.6	33.2	36.0	36.9	36.2	33.3	33.6	34.7	34.7	37.2
Physical sciences .....	1.5	1.9	1.5	1.7	1.4	1.6	1.3	1.4	1.0	1.4	1.2	1.6	1.7	1.6
Biological/agricultural sciences .....	7.3	7.1	6.7	5.6	6.2	6.9	7.9	9.3	8.6	7.1	7.4	8.2	8.1	9.3
Mathematics/statistics .....	1.1	0.7	0.5	0.6	0.3	0.4	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.7
Computer sciences .....	6.9	4.7	2.6	2.2	2.8	2.1	2.9	3.4	3.8	3.8	3.8	2.4	2.1	2.2
Social/behavioral sciences .....	8.5	11.9	12.4	12.9	9.9	12.5	12.2	11.4	10.9	12.3	11.6	13.2	13.1	12.6
Engineering .....	12.3	12.6	11.4	10.5	10.0	9.7	11.2	10.8	11.3	8.1	8.9	8.6	8.9	10.8
<b>Male .....</b>	<b>43.0</b>	<b>47.5</b>	<b>41.9</b>	<b>40.2</b>	<b>35.6</b>	<b>38.8</b>	<b>42.0</b>	<b>43.0</b>	<b>45.0</b>	<b>40.6</b>	<b>40.4</b>	<b>40.8</b>	<b>40.8</b>	<b>45.0</b>
Physical sciences .....	2.2	2.8	1.9	2.2	1.7	2.2	1.7	1.8	1.1	1.7	1.3	1.8	2.2	2.1
Biological/agricultural sciences .....	6.7	7.4	6.8	5.9	5.5	7.4	6.8	7.7	7.3	7.1	5.9	6.8	6.3	7.9
Mathematics/statistics .....	1.4	0.8	0.8	0.8	0.5	0.5	0.3	0.6	0.8	0.6	0.9	1.0	1.0	0.8
Computer sciences .....	7.2	6.5	3.2	3.1	3.9	3.1	4.7	5.7	6.8	7.3	7.1	5.2	4.6	4.5
Social/behavioral sciences .....	6.5	9.3	9.7	10.0	7.3	9.8	7.8	8.0	6.9	7.7	7.6	7.9	8.2	8.7
Engineering .....	19.0	20.7	19.5	18.2	16.7	15.8	20.7	19.2	22.1	16.2	17.6	18.1	18.5	21.0
<b>Female .....</b>	<b>32.2</b>	<b>31.7</b>	<b>29.4</b>	<b>28.3</b>	<b>26.3</b>	<b>28.2</b>	<b>31.0</b>	<b>31.5</b>	<b>28.7</b>	<b>27.6</b>	<b>28.4</b>	<b>30.7</b>	<b>30.5</b>	<b>31.7</b>
Physical sciences .....	0.8	1.1	1.0	1.3	1.3	1.1	1.2	1.2	0.8	1.2	1.3	1.5	1.2	1.3
Biological/agricultural sciences .....	7.9	7.0	6.6	5.6	6.7	6.5	8.7	10.3	9.4	6.9	8.2	9.2	9.2	10.4
Mathematics/statistics .....	0.8	0.5	0.3	0.4	0.2	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.7	0.7
Computer sciences .....	6.5	3.1	2.2	1.6	1.9	1.1	1.5	1.5	1.4	1.5	1.4	0.6	0.4	0.6
Social/behavioral sciences .....	10.2	14.0	14.9	15.2	12.5	14.7	15.8	14.2	13.8	15.3	14.3	16.7	16.4	15.6
Engineering .....	6.0	6.0	4.4	4.2	3.7	4.4	3.3	3.9	2.9	2.2	2.7	2.2	2.6	3.1
<b>Other Latino .....</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>38.0</b>	<b>39.5</b>	<b>38.2</b>	<b>37.2</b>	<b>35.2</b>	<b>36.6</b>	<b>35.4</b>	<b>37.6</b>	<b>38.3</b>
Physical sciences .....	NA	NA	NA	NA	NA	2.0	1.4	1.8	1.3	1.3	1.4	1.6	1.7	1.9
Biological/agricultural sciences .....	NA	NA	NA	NA	NA	9.5	10.9	9.4	7.6	7.6	7.9	7.8	8.4	9.1
Mathematics/statistics .....	NA	NA	NA	NA	NA	0.2	0.5	0.4	0.4	0.3	0.4	0.7	0.6	0.9
Computer sciences .....	NA	NA	NA	NA	NA	2.2	3.5	4.4	5.0	5.7	4.4	2.5	2.4	1.8
Social/behavioral sciences .....	NA	NA	NA	NA	NA	13.1	12.7	11.9	13.1	12.7	13.4	13.9	14.6	14.4
Engineering .....	NA	NA	NA	NA	NA	11.0	10.5	10.3	9.8	7.6	9.1	8.9	9.9	10.2
<b>Male .....</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>40.4</b>	<b>44.5</b>	<b>43.9</b>	<b>45.4</b>	<b>43.9</b>	<b>45.5</b>	<b>42.2</b>	<b>43.8</b>	<b>45.1</b>
Physical sciences .....	NA	NA	NA	NA	NA	1.8	2.0	2.2	1.9	1.8	2.1	2.0	2.1	2.7
Biological/agricultural sciences .....	NA	NA	NA	NA	NA	8.7	8.3	7.9	5.3	6.8	7.1	6.9	6.4	7.4
Mathematics/statistics .....	NA	NA	NA	NA	NA	0.3	0.6	0.6	0.4	0.3	0.5	0.9	0.8	1.1
Computer sciences .....	NA	NA	NA	NA	NA	2.9	5.8	7.2	9.4	11.2	8.7	4.8	4.7	3.4
Social/behavioral sciences .....	NA	NA	NA	NA	NA	9.0	9.0	7.6	9.7	8.5	9.0	10.0	10.6	10.5
Engineering .....	NA	NA	NA	NA	NA	17.7	18.8	18.4	18.7	15.3	18.1	17.6	19.2	20.0
<b>Female .....</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>35.4</b>	<b>35.8</b>	<b>33.3</b>	<b>31.3</b>	<b>29.9</b>	<b>30.3</b>	<b>31.1</b>	<b>33.1</b>	<b>33.8</b>
Physical sciences .....	NA	NA	NA	NA	NA	2.0	1.2	1.3	1.1	0.9	0.9	1.5	1.4	1.6
Biological/agricultural sciences .....	NA	NA	NA	NA	NA	9.9	13.2	10.6	9.4	8.5	8.3	8.3	9.7	10.4
Mathematics/statistics .....	NA	NA	NA	NA	NA	0.2	0.5	0.3	0.3	0.3	0.3	0.6	0.5	0.7
Computer sciences .....	NA	NA	NA	NA	NA	1.5	1.5	2.1	1.7	2.1	1.6	0.9	0.8	0.7
Social/behavioral sciences .....	NA	NA	NA	NA	NA	17.0	16.1	15.1	15.5	15.3	16.4	16.6	17.5	17.0
Engineering .....	NA	NA	NA	NA	NA	4.8	3.3	3.9	3.3	2.8	2.8	3.2	3.2	3.4

Appendix table 2-6

**Freshmen intending S&E major, by sex, race/ethnicity, and field: Selected years, 1983–2004**

(Percent distribution)

(Page 4 of 4)

Sex, race/ethnicity, and field	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003	2004
American Indian .....	31.3	29.2	31.5	33.9	31.2	31.9	30.6	34.9	35.4	33.8	35.3	32.0	34.2	33.8
Physical sciences .....	2.2	1.6	2.2	2.0	2.0	1.5	2.0	2.5	2.7	2.6	1.8	1.7	1.7	2.5
Biological/agricultural sciences .....	4.8	5.5	6.3	4.8	6.5	8.0	9.3	8.8	9.3	6.9	8.4	7.9	9.7	8.6
Mathematics/statistics .....	0.6	0.5	1.0	0.6	0.3	0.7	0.4	0.5	0.7	0.4	0.6	0.6	0.8	0.6
Computer sciences .....	8.7	5.1	2.7	2.2	3.0	2.3	3.0	5.0	4.4	4.0	4.4	2.8	2.3	2.2
Social/behavioral sciences .....	6.0	9.9	9.3	13.5	9.7	11.0	9.5	10.7	10.4	11.9	12.7	11.5	13.4	12.1
Engineering .....	9.0	6.6	10.0	10.8	9.7	8.4	6.4	7.4	7.9	8.0	7.4	7.5	6.3	7.8
Male .....	35.2	33.0	39.7	38.8	37.0	35.9	36.5	37.0	39.0	36.6	41.0	36.8	40.9	40.7
Physical sciences .....	3.6	2.6	3.6	2.5	2.4	2.0	2.4	3.2	2.9	3.6	2.3	2.2	2.1	3.2
Biological/agricultural sciences .....	6.2	7.7	7.2	5.9	6.1	9.5	9.6	6.8	7.9	4.9	6.9	5.3	8.8	8.2
Mathematics/statistics .....	0.6	1.0	0.8	0.4	0.3	0.8	0.2	0.8	0.7	0.4	0.6	0.8	0.6	0.7
Computer sciences .....	4.5	3.8	2.6	1.5	3.0	1.9	4.1	5.8	5.4	5.1	7.2	4.0	5.3	4.7
Social/behavioral sciences .....	5.5	6.4	7.2	11.2	6.7	8.2	7.5	6.9	7.0	8.2	8.3	8.6	10.0	8.7
Engineering .....	14.8	11.5	18.3	17.3	18.5	13.5	12.7	13.5	15.1	14.4	15.7	15.9	14.1	15.2
Female .....	18.9	20.8	23.4	28.3	25.3	26.5	25.1	30.7	30.0	28.4	30.6	27.2	30.7	29.4
Physical sciences .....	1.0	0.7	0.9	1.3	1.7	1.0	1.9	1.9	2.4	1.8	1.6	1.4	1.7	2.1
Biological/agricultural sciences .....	3.7	3.1	5.6	4.0	6.7	6.7	9.1	10.2	10.4	7.9	9.0	8.8	10.2	9.0
Mathematics/statistics .....	0.7	0.2	1.2	0.6	0.3	0.6	0.5	0.3	0.5	0.3	0.7	0.4	0.9	0.5
Computer sciences .....	3.7	1.9	0.7	1.0	1.5	1.6	0.7	2.3	1.3	0.9	1.1	0.5	0.4	0.5
Social/behavioral sciences .....	6.1	12.4	11.3	15.5	12.0	12.4	11.2	12.9	12.7	14.4	15.2	13.3	15.7	14.4
Engineering .....	3.7	2.5	3.7	5.9	3.1	4.2	1.7	3.1	2.7	3.1	3.0	2.8	1.8	2.9

NA = not available

NOTE: Physical sciences include physics, chemistry, astronomy, and earth, atmospheric, and ocean sciences.

SOURCE: Higher Education Research Institute, University of California at Los Angeles, Survey of the American Freshman: National Norms, special tabulations (2005).

Science and Engineering Indicators 2006

Appendix table 2-7

(Page 1 of 2)

**Freshmen intending to major in selected S&E fields, by sex and race/ethnicity: Selected years, 1983–2004**

(Percent)

Sex, race/ethnicity, and field	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003	2004
Male .....	62.5	61.4	59.2	57.3	57.9	56.1	54.5	55.6	56.2	55.9	55.8	55.5	54.8	55.0
Female .....	37.5	38.6	40.8	42.7	42.1	43.9	45.5	44.4	43.8	44.1	44.2	44.4	45.2	45.0
White .....	85.4	83.7	83.1	81.8	76.9	79.1	76.2	76.3	74.4	72.4	71.2	72.1	71.6	72.1
Physical sciences .....	90.5	86.3	88.3	87.6	85.0	85.7	84.7	84.6	84.9	82.5	80.8	80.6	78.6	79.7
Biological/agricultural sciences.....	86.3	84.2	82.9	81.9	77.5	79.4	76.6	77.0	75.3	71.5	68.9	68.3	65.1	65.1
Mathematics/statistics.....	90.8	89.7	89.1	89.8	84.7	86.9	83.5	82.9	82.7	82.8	81.4	80.0	78.6	80.8
Computer sciences .....	79.0	71.2	73.4	68.5	61.3	66.3	65.2	68.0	63.7	64.0	62.6	68.8	71.7	71.6
Social/behavioral sciences.....	86.4	88.2	85.6	83.5	79.0	81.3	78.6	78.5	76.9	74.3	71.9	73.0	73.2	74.1
Engineering .....	87.2	83.3	81.5	81.1	76.1	77.2	74.3	75.2	74.5	73.3	74.1	72.6	72.8	73.6
Asian American.....	2.7	4.2	4.7	4.7	5.9	5.7	7.2	8.1	9.4	9.7	9.6	10.2	11.6	11.9
Physical sciences .....	3.2	5.4	4.5	4.0	5.2	4.6	5.5	5.4	6.2	6.5	6.9	7.3	9.5	9.2
Biological/agricultural sciences.....	3.7	5.6	6.9	6.2	8.2	7.4	8.5	8.3	9.4	10.8	10.9	12.7	16.4	16.8
Mathematics/statistics.....	2.6	2.8	3.1	3.3	4.3	4.2	4.5	5.1	6.3	6.9	8.0	8.3	10.3	9.0
Computer sciences .....	2.0	1.9	4.5	3.4	6.2	5.5	9.3	11.4	16.1	14.8	14.4	11.8	10.6	9.2
Social/behavioral sciences.....	1.5	2.4	2.5	3.0	3.8	4.0	4.3	4.8	5.0	5.6	5.8	6.4	7.2	7.8
Engineering .....	3.4	5.7	6.0	6.4	6.7	6.3	8.9	10.3	10.8	11.1	10.9	12.8	13.3	13.4
Black .....	10.0	10.0	9.6	10.5	13.1	11.4	11.6	11.4	10.4	11.5	11.0	10.7	9.8	10.1
Physical sciences .....	5.2	6.9	5.3	6.1	7.0	7.2	7.2	6.5	6.3	7.4	6.6	6.5	7.0	7.8
Biological/agricultural sciences.....	7.7	7.8	7.3	9.0	10.0	9.3	10.6	10.5	9.6	11.3	11.4	11.3	10.9	11.3
Mathematics/statistics.....	5.1	6.2	6.6	5.3	8.7	7.3	10.0	10.0	8.5	6.6	5.5	6.7	5.6	5.3
Computer sciences .....	17.3	24.9	19.3	25.1	27.5	24.1	20.8	17.0	15.3	15.6	15.7	14.4	12.7	15.1
Social/behavioral sciences.....	10.2	7.7	9.2	10.3	13.0	10.3	11.4	12.2	11.9	12.1	13.3	12.1	11.3	11.4
Engineering .....	7.6	8.5	9.8	9.4	13.4	12.7	10.9	10.3	7.9	9.7	6.9	8.7	7.5	7.6
Hispanic .....	1.3	1.5	1.9	2.1	2.6	3.9	5.1	5.0	6.4	7.1	7.6	6.9	7.4	8.1
Physical sciences .....	0.9	1.1	1.3	1.7	1.8	2.6	2.8	3.6	3.8	5.3	5.1	5.3	5.3	5.5
Biological/agricultural sciences.....	1.6	1.7	2.1	2.1	2.6	3.6	4.6	5.0	6.1	7.4	7.6	7.0	7.3	8.1
Mathematics/statistics.....	1.1	0.7	1.0	1.5	1.1	1.9	2.6	3.3	5.2	4.7	6.4	6.1	6.7	6.9
Computer sciences .....	1.0	1.4	1.8	1.9	3.3	3.6	4.5	4.1	4.9	5.9	6.1	5.2	6.0	7.0
Social/behavioral sciences.....	1.4	1.7	2.1	2.4	2.8	5.0	5.9	6.1	7.5	9.1	9.2	8.7	9.0	9.5
Engineering .....	1.3	1.5	1.9	2.2	2.5	3.7	5.9	4.9	7.0	6.1	7.1	5.8	6.7	7.6
American Indian.....	1.1	0.9	1.0	1.0	1.6	1.7	2.1	3.1	2.3	1.9	1.3	1.2	1.3	2.0
Physical sciences .....	1.2	0.8	1.1	0.9	1.6	1.1	2.1	3.5	3.3	2.5	1.2	1.1	1.1	2.0
Biological/agricultural sciences.....	1.1	1.1	1.1	0.8	1.7	1.8	2.2	3.1	2.5	1.8	1.4	1.3	1.5	2.0
Mathematics/statistics.....	0.7	0.5	1.1	0.6	0.6	1.6	1.1	2.1	2.4	0.9	1.1	1.0	1.2	1.4
Computer sciences .....	1.4	1.3	1.1	0.9	2.1	1.9	2.2	3.7	1.9	1.4	1.1	1.1	1.1	2.2
Social/behavioral sciences.....	1.0	1.2	0.9	1.2	1.7	2.1	2.4	3.7	2.6	2.4	1.6	1.5	1.7	2.4
Engineering .....	0.9	0.6	1.0	1.0	1.5	1.5	1.8	2.3	2.0	1.7	1.0	1.0	0.9	1.6

**Freshmen intending to major in selected S&E fields, by sex and race/ethnicity: Selected years, 1983–2004**

(Percent)

Sex, race/ethnicity, and field	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003	2004
Unknown .....	1.5	1.6	1.9	1.9	2.6	1.9	2.5	3.3	3.9	3.8	3.3	3.2	3.3	3.4
Physical sciences .....	1.8	1.4	1.8	1.8	2.1	1.7	2.5	3.4	4.0	3.2	3.2	2.9	3.1	3.3
Biological/agricultural sciences.....	1.6	1.7	2.1	1.9	2.9	2.0	2.9	3.7	3.8	3.7	3.8	3.7	4.2	4.0
Mathematics/statistics.....	1.0	0.8	1.3	1.3	2.2	2.1	1.3	2.5	3.6	3.5	1.7	2.5	2.5	2.3
Computer sciences.....	1.2	1.0	2.2	1.6	2.3	1.6	2.2	2.9	4.0	4.1	3.4	2.8	2.0	2.4
Social/behavioral sciences.....	1.6	1.5	2.0	1.9	3.1	2.1	2.5	3.2	4.0	4.2	3.5	3.6	3.6	3.7
Engineering .....	1.5	1.9	1.8	2.0	2.3	1.6	2.5	3.2	3.6	3.3	2.9	2.6	2.6	2.8

NOTES: Physical sciences include physics, chemistry, astronomy, and earth, atmospheric, and ocean sciences. Hispanic includes three group designations from freshman norms survey: Mexican American/Chicano, Puerto Rican American, and other Latino. Detail may not add to total because students may check more than one race/ethnicity, e.g., white and Hispanic.

SOURCE: Higher Education Research Institute, University of California at Los Angeles, Survey of the American Freshman: National Norms, special tabulations (2005).

*Science and Engineering Indicators 2006*

Appendix table 2-8

**Freshmen reporting need for remediation in mathematics or science, by sex and intended major: 1984 and 2002**

(Percent)

Intended major	1984						2002					
	Science			Mathematics			Science			Mathematics		
	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female
S&E .....	7.9	6.4	10.2	17.0	14.2	21.4	9.7	6.8	13.3	20.2	14.9	26.9
Mathematics .....	4.2	3.4	4.8	4.1	3.1	4.9	5.6	4.6	6.6	4.7	4.6	4.7
Physical sciences .....	5.0	3.8	7.5	12.9	11.4	16.2	8.3	5.4	12.1	14.7	10.0	20.7
Computer sciences .....	8.0	5.9	11.5	16.1	13.0	21.3	6.2	4.8	14.1	16.1	14.0	28.0
Biological/agricultural sciences.....	8.6	7.0	10.3	20.9	18.8	23.3	12.2	8.9	14.2	22.8	16.7	26.5
Social/behavioral sciences.....	8.9	7.0	10.1	25.1	22.5	26.8	11.1	7.1	13.1	27.9	20.5	31.6
Engineering .....	7.6	6.8	11.5	11.7	11.5	12.5	8.1	7.0	13.3	14.0	13.4	16.9
Non-S&E.....	11.3	9.3	12.9	24.8	22.5	26.6	10.7	8.1	12.5	24.7	20.8	27.3

NOTES: Physical sciences include physics, chemistry, astronomy, and earth, atmospheric, and ocean sciences. Data not available for 2004.

SOURCE: Higher Education Research Institute, University of California at Los Angeles, Survey of the American Freshman: National Norms, special tabulations (2003).

Science and Engineering Indicators 2006

Appendix table 2-9  
**Foreign undergraduate student enrollment in U.S. universities, by selected places of origin:  
 Selected years, 1987–2004**

Place of origin	Students
1987	
All locations.....	199,821
Malaysia.....	15,331
Japan.....	13,790
Canada.....	9,775
Indonesia.....	6,424
Taiwan.....	5,785
South Korea.....	5,581
India.....	5,463
China.....	4,782
Mexico.....	4,288
Thailand.....	2,810
Other locations.....	125,791
1993	
All locations.....	248,711
Japan.....	36,015
South Korea.....	15,291
Canada.....	14,200
Taiwan.....	12,958
Malaysia.....	11,640
Indonesia.....	8,345
China.....	8,011
India.....	7,263
Mexico.....	5,166
Thailand.....	3,916
Other locations.....	125,906
1999	
All locations.....	289,340
Japan.....	37,975
South Korea.....	21,106
Taiwan.....	14,343
Canada.....	13,411
India.....	11,804
China.....	10,339
Indonesia.....	8,592
Malaysia.....	7,090
Mexico.....	6,581
Thailand.....	4,111
Other locations.....	153,988
2004	
All locations.....	255,859
Japan.....	27,925
South Korea.....	22,727
Canada.....	13,996
India.....	13,531
Taiwan.....	8,501
Mexico.....	8,303
China.....	8,034
Indonesia.....	6,249
Hong Kong.....	5,494
Kenya.....	5,297
Other locations.....	135,802

NOTES: Data for temporary residents only. Student counts other than total foreign student enrollment imputed from data reported by institutions. Large discrepancy between academic-level values reported by country and those provided by U.S. institutions for foreign students because of differential response rates to nationality question and academic-level question.

SOURCES: Institute of International Education, Annual Census of Foreign Students, special tabulations (2001); and *Open Doors 2004: Report on International Educational Exchange* (2004).

Appendix table 2-10  
**Undergraduate enrollment in engineering and engineering technology programs: Selected years, 1983–2003**

Enrollment level and institution	1983	1985	1987	1989	1991	1993	1995	1997	1998	1999	2000	2001	2002	2003
<b>Engineering</b>														
Students.....	441,205	420,864	392,198	378,277	379,977	375,944	363,315	365,358	366,991	361,395	390,803	409,557	421,178	421,791
Full time.....	406,144	384,191	356,998	338,529	339,397	337,817	325,489	326,458	329,657	323,713	353,118	367,954	383,109	384,612
Freshman.....	109,638	103,225	95,453	95,420	93,002	88,875	86,299	90,882	94,909	93,951	101,773	106,825	107,086	103,834
Sophomore.....	89,515	79,627	73,317	71,267	71,257	69,974	67,981	67,879	69,608	69,941	76,706	78,348	81,854	82,542
Junior.....	91,233	84,875	77,085	70,483	73,516	73,449	68,894	68,812	67,638	66,975	74,055	76,938	79,806	80,703
Senior or fifth year.....	115,758	116,464	111,143	101,359	101,622	105,519	102,315	98,885	97,502	92,846	100,584	105,843	114,363	117,533
Part time.....	35,061	36,673	35,200	39,748	40,580	38,127	37,826	38,900	37,334	37,682	37,685	41,603	38,069	37,179
<b>Engineering technologies</b>														
Students.....	163,226	123,571	128,501	127,687	127,135	106,976	105,809	108,459	108,993	108,754	107,165	108,886	112,654	110,250
Full time.....	112,745	83,038	80,600	76,179	75,340	65,581	63,929	67,864	68,545	69,173	66,771	71,147	72,704	72,040
First year.....	53,032	34,389	32,685	32,225	31,302	24,824	25,665	30,227	28,367	29,490	29,531	31,588	30,252	28,033
Second year.....	33,799	23,293	22,906	21,627	20,815	19,962	18,863	19,106	18,426	17,326	18,318	19,171	20,360	21,009
Other years associated.....	925	466	1,404	1,810	2,221	2,564	2,007	3,442	6,080	5,289	2,474	2,207	2,786	3,876
Bachelor's of engineering technologies third and later years.....	24,989	24,890	23,605	20,517	21,002	18,231	17,394	15,089	15,672	17,068	16,448	18,181	19,306	19,278
Part time.....	50,481	40,533	47,901	51,508	51,795	41,395	41,880	40,595	40,448	39,581	40,394	37,739	39,950	38,210

SOURCE: Engineering Workforce Commission, *Engineering & Technology Enrollments, Fall 2003*, American Association of Engineering Societies (2004).

Science and Engineering Indicators 2006

Appendix table 2-11

**Engineering enrollment, by enrollment level and attendance: 1983–2003**

Year	Undergraduate						Graduate					
	Total		Full time		Part time		Total		Full time		Part time	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1983.....	441,205	100.0	406,144	92.1	35,061	7.9	91,040	100.0	57,366	63.0	33,674	37.0
1984.....	429,499	100.0	394,635	91.9	34,864	8.1	93,165	100.0	57,277	61.5	35,888	38.5
1985.....	420,864	100.0	384,191	91.3	36,673	8.7	95,505	100.0	60,641	63.5	34,864	36.5
1986.....	407,657	100.0	369,520	90.6	38,137	9.4	107,196	100.0	67,333	62.8	39,863	37.2
1987.....	392,198	100.0	356,998	91.0	35,200	9.0	110,778	100.0	69,343	62.6	41,435	37.4
1988.....	385,412	100.0	346,169	89.8	39,243	10.2	112,007	100.0	69,226	61.8	42,781	38.2
1989.....	378,277	100.0	338,529	89.5	39,748	10.5	114,048	100.0	68,967	60.5	45,081	39.5
1990.....	380,287	100.0	338,842	89.1	41,445	10.9	117,834	100.0	72,456	61.5	45,378	38.5
1991.....	379,977	100.0	339,397	89.3	40,580	10.7	123,497	100.0	74,568	60.4	48,929	39.6
1992.....	382,525	100.0	344,126	90.0	38,399	10.0	128,854	100.0	78,651	61.0	50,203	39.0
1993.....	375,944	100.0	337,817	89.9	38,127	10.1	128,081	100.0	78,885	61.6	49,196	38.4
1994.....	367,298	100.0	328,463	89.4	38,835	10.6	122,242	100.0	74,596	61.0	47,646	39.0
1995.....	363,315	100.0	325,489	89.6	37,826	10.4	118,506	100.0	72,215	60.9	46,291	39.1
1996.....	356,177	100.0	317,772	89.2	38,405	10.8	113,063	100.0	70,129	62.0	42,934	38.0
1997.....	365,358	100.0	326,458	89.4	38,900	10.6	112,257	100.0	70,447	62.8	41,810	37.2
1998.....	366,991	100.0	329,657	89.8	37,334	10.2	110,355	100.0	69,519	63.0	40,836	37.0
1999.....	361,485	100.0	323,713	89.6	37,682	10.4	105,006	100.0	67,634	64.4	37,372	35.6
2000.....	390,803	100.0	353,118	90.4	37,685	9.6	118,257	100.0	81,821	69.2	36,436	30.8
2001.....	409,557	100.0	367,954	89.8	41,603	10.2	128,764	100.0	87,187	67.7	41,577	32.3
2002.....	421,178	100.0	383,109	91.0	38,069	9.0	140,240	100.0	97,752	69.7	42,488	30.3
2003.....	421,791	100.0	384,612	91.2	37,179	8.8	147,940	100.0	103,223	69.8	44,717	30.2

SOURCE: Engineering Workforce Commission, *Engineering & Technology Enrollments, Fall 2003*, American Association of Engineering Societies (2004).

Science and Engineering Indicators 2006

Appendix table 2-12

**Employment and education status of S&E bachelor's and master's degree recipients, by degree level and undergraduate GPA: 1995, 2001, and 2003**

(Percent distribution)

Degree and GPA	Graduates	Employment and education status					
		Continuing in S&E		In school, not studying S&E		Not in school, other	
		In school, studying S&E <sup>a</sup>	Employed in S&E/not in school	Employed in S&E	Employed outside S&E or unemployed	Employed outside S&E	Unemployed
<b>1995</b>							
Bachelor's .....	698,200	12.1	16.7	2.3	17.4	46.8	4.7
3.75–4.0 .....	83,400	20.5	15.7	3.3	22.7	33.3	4.5
3.25–3.74 .....	237,300	14.5	15.0	3.1	21.3	42.0	4.3
2.75–3.24 .....	287,000	9.7	17.6	1.7	15.0	51.2	4.8
<2.75 .....	89,400	5.7	19.7	1.3	9.8	57.8	5.9
Master's .....	146,300	22.5	39.6	2.4	4.8	26.5	4.2
3.75–4.0 .....	33,600	31.8	36.6	3.0	3.2	21.5	4.0
3.25–3.74 .....	56,700	23.2	40.1	2.6	5.5	24.8	3.9
2.75–3.24 .....	43,900	16.6	40.6	1.6	4.6	31.5	5.2
<2.75 .....	11,300	12.1	43.2	2.8	6.9	31.8	3.2
<b>2001</b>							
Bachelor's .....	758,300	12.9	20.4	1.6	14.9	44.9	5.2
3.75–4.0 .....	116,900	18.4	17.3	2.5	22.6	34.4	4.9
3.25–3.74 .....	283,500	16.1	18.3	1.8	17.8	41.5	4.5
2.75–3.24 .....	282,600	9.2	23.5	1.3	10.6	49.9	5.4
<2.75 .....	74,400	6.7	21.9	1.0	8.2	54.9	7.3
Master's .....	160,100	17.1	45.7	1.3	4.6	27.0	4.2
3.75–4.0 .....	41,800	24.4	41.7	1.5	5.7	22.3	4.5
3.25–3.74 .....	63,600	17.1	45.6	0.9	4.3	28.7	3.4
2.75–3.24 .....	45,600	11.4	50.6	2.0	3.7	28.0	4.4
<2.75 .....	8,200	10.7	40.3	0.0	7.4	33.1	8.6
<b>2003</b>							
Bachelor's .....	937,700	11.9	15.7	2.0	21.0	43.2	6.3
3.75–4.0 .....	166,600	17.8	9.9	1.7	26.8	38.6	5.2
3.25–3.74 .....	362,100	13.6	14.1	2.1	24.1	40.1	6.1
2.75–3.24 .....	308,900	8.5	19.5	1.9	16.9	46.8	6.4
<2.75 .....	98,800	6.7	19.3	2.0	13.0	51.1	7.8
Master's .....	246,700	14.5	29.1	2.5	6.6	40.6	6.8
3.75–4.0 .....	71,600	18.2	29.2	1.9	4.8	39.0	7.0
3.25–3.74 .....	99,700	13.8	31.2	2.9	5.3	40.3	6.6
2.75–3.24 .....	58,400	12.0	26.7	2.5	9.6	41.8	7.2
<2.75 .....	15,900	10.1	24.6	2.2	11.1	47.5	4.6

GPA = grade point average

<sup>a</sup>All graduates studying S&E, including those employed in S&E and non-S&E and those unemployed. Definition based on assumption that field being studied in school is better indicator of future career plans than current employment.

NOTES: 1995 survey—S&E degrees earned in 1993 and 1994; 2001 survey—S&E degrees earned in 1999 and 2000; and 2003 survey—S&E degrees earned in 2001 and 2002. Retention in S&E measured through education and job codes rather than graduate self-evaluation. Detail may not add to total because of rounding and because a few graduates who reported that their undergraduate courses were ungraded were excluded from GPA categories but included in total rows.

SOURCE: National Science Foundation, Division of Science Resources Statistics, National Survey of Recent College Graduates, 1995, 2001, and 2003, special tabulations (2005).

Appendix table 2-13

## First-time full-time S&amp;E graduate students, by field: Selected years, 1983–2003

Field	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
S&E .....	81,606	80,678	80,843	84,532	93,147	92,748	89,482	89,177	92,214	94,340	98,112	104,179	107,842
Engineering .....	19,081	18,277	19,440	19,831	22,542	20,349	18,076	18,848	20,513	22,191	23,306	24,596	24,441
Aerospace .....	614	722	920	982	1,125	963	650	735	727	775	767	712	845
Chemical .....	1,828	1,546	1,372	1,343	1,527	1,532	1,421	1,467	1,491	1,595	1,541	1,616	1,600
Civil .....	3,804	3,536	3,221	3,404	4,210	4,019	3,825	3,792	3,726	3,840	3,820	4,107	4,363
Electrical .....	4,668	4,892	5,462	5,768	6,231	5,484	5,002	5,548	6,369	7,195	7,882	8,221	7,841
Industrial .....	1,206	1,195	1,506	1,754	2,056	1,663	1,541	1,549	1,851	2,005	2,216	2,238	2,022
Materials .....	766	806	881	920	1,012	892	822	870	892	1,005	975	1,044	958
Mechanical .....	3,121	3,030	3,270	3,306	3,771	3,514	2,832	2,829	3,119	3,269	3,583	3,698	3,476
Other .....	3,074	2,550	2,808	2,354	2,610	2,282	1,983	2,058	2,338	2,507	2,522	2,960	3,336
Science .....	62,525	62,401	61,403	64,701	70,605	72,399	71,406	70,329	71,701	72,149	74,806	79,583	83,401
Natural sciences .....	40,182	40,397	39,954	41,671	44,725	45,309	46,055	45,825	48,677	49,626	51,215	54,130	55,898
Agricultural sciences .....	2,905	2,525	2,281	2,420	2,495	2,363	2,290	2,157	2,253	2,335	2,338	2,320	2,424
Biological sciences .....	9,694	9,713	9,621	9,882	10,570	11,017	11,356	11,053	10,959	10,955	11,608	12,133	12,698
Earth, atmospheric, and ocean sciences .....	3,735	3,218	2,566	2,636	2,908	2,985	2,801	2,681	2,746	2,649	2,794	3,085	3,104
Atmospheric sciences .....	210	286	256	211	224	214	198	224	203	222	205	213	268
Earth sciences .....	2,704	2,133	1,554	1,451	1,503	1,505	1,423	1,339	1,296	1,230	1,383	1,437	1,412
Oceanography .....	421	392	367	440	474	488	420	410	474	479	511	533	567
Other geosciences .....	400	407	389	534	707	778	760	708	773	718	695	902	857
Mathematics/computer sciences .....	7,490	8,678	9,006	9,716	9,920	8,786	8,361	8,320	9,948	11,850	12,763	12,955	12,333
Computer sciences .....	3,892	4,703	5,092	5,487	5,570	4,742	4,783	5,018	6,677	8,431	9,077	9,037	8,148
Mathematics/statistics .....	3,598	3,975	3,914	4,229	4,350	4,044	3,578	3,302	3,271	3,419	3,686	3,918	4,185
Medical/other life sciences .....	9,651	9,616	9,702	10,164	11,724	13,468	15,118	15,577	16,767	16,008	15,701	17,357	18,498
Medical sciences .....	3,288	3,435	3,635	3,838	4,024	4,419	4,743	4,531	5,037	5,127	5,361	5,780	6,118
Other life sciences .....	6,363	6,181	6,067	6,326	7,700	9,049	10,375	11,046	11,730	10,881	10,340	11,577	12,380
Physical sciences .....	6,707	6,647	6,778	6,853	7,108	6,690	6,129	6,037	6,004	5,829	6,011	6,280	6,841
Astronomy .....	123	155	171	160	153	153	147	125	171	183	193	194	225
Chemistry .....	3,997	3,882	3,764	3,861	4,088	3,842	3,708	3,758	3,672	3,482	3,651	3,746	3,983
Physics .....	2,562	2,550	2,772	2,784	2,820	2,642	2,188	2,074	2,074	2,101	2,102	2,231	2,543
Other physical sciences .....	25	60	71	48	47	53	86	80	87	63	65	109	90
Social/behavioral sciences .....	22,343	22,004	21,449	23,030	25,880	27,090	25,351	24,504	23,024	22,523	23,591	25,453	27,503
Psychology .....	7,766	7,597	7,859	8,516	9,457	9,686	9,241	8,800	8,305	7,545	7,691	8,420	8,922
Social sciences .....	14,577	14,407	13,590	14,514	16,423	17,404	16,110	15,704	14,719	14,978	15,900	17,033	18,581
Anthropology .....	854	986	988	1,055	1,271	1,309	1,247	1,196	1,193	1,157	1,119	1,177	1,279
Economics .....	3,515	3,337	2,988	3,128	3,516	3,407	3,097	2,835	2,837	2,963	3,058	3,418	3,457
History of science .....	52	53	65	67	69	69	70	79	91	78	72	97	101
Linguistics .....	798	685	648	655	675	611	594	579	422	454	495	466	588
Political science/public administration .....	5,136	5,130	4,639	5,213	6,121	6,567	5,916	5,264	4,837	5,142	5,562	6,241	6,948
Sociology .....	1,443	1,380	1,554	1,665	1,710	1,932	1,650	1,696	1,451	1,464	1,591	1,690	1,722
Other social sciences .....	2,779	2,836	2,708	2,731	3,061	3,509	3,536	4,055	3,888	3,720	4,003	3,944	4,486

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

**S&E graduate enrollment, by field and sex: Selected years, 1983–2003**

Field and sex	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
<b>Both sexes</b>													
S&E.....	390,432	404,021	421,497	434,478	471,212	504,304	499,640	487,208	493,256	493,311	509,620	540,513	566,835
Engineering.....	91,146	96,018	103,983	104,065	113,535	116,872	107,201	101,148	101,691	104,112	109,493	119,668	127,375
Aerospace.....	2,305	2,538	3,015	3,524	4,120	3,940	3,343	3,083	3,349	3,407	3,451	3,685	4,048
Chemical.....	7,590	7,177	7,141	6,482	7,157	7,554	7,452	7,288	6,883	7,056	6,913	7,414	7,516
Civil.....	14,910	14,902	14,682	14,909	17,398	19,583	19,218	17,193	16,226	16,451	16,665	17,713	18,838
Electrical.....	25,295	28,203	31,399	33,257	35,111	35,290	30,861	30,787	31,822	33,611	36,100	39,948	41,745
Industrial.....	9,247	10,525	12,353	11,333	12,996	13,905	13,475	11,957	11,803	12,119	12,940	14,033	14,295
Materials.....	3,477	3,959	4,397	4,635	5,203	5,410	4,956	4,688	4,481	4,377	4,721	4,992	5,154
Mechanical.....	12,911	14,157	16,366	16,265	17,730	18,477	16,363	15,045	14,956	15,235	15,852	17,139	18,440
Other.....	15,411	14,557	14,630	13,660	13,820	12,713	11,533	11,107	12,171	11,856	12,851	14,744	17,339
Science.....	299,286	308,003	317,514	330,413	357,677	387,432	392,439	386,060	391,565	389,199	400,127	420,845	439,460
Natural sciences.....	187,044	197,318	203,637	210,734	225,574	244,098	249,363	246,849	254,854	255,406	263,978	279,465	292,609
Agricultural sciences.....	12,728	11,846	11,405	11,461	11,766	12,305	12,768	12,203	12,312	12,023	12,235	12,698	13,197
Biological sciences.....	45,253	45,709	46,317	48,449	51,365	55,950	58,344	56,705	56,959	56,282	57,639	61,133	64,684
Earth, atmospheric, and ocean sciences.....	15,443	15,414	14,357	13,630	14,466	15,721	15,716	14,548	14,083	13,941	13,841	14,240	14,655
Atmospheric sciences.....	896	964	952	912	968	1,112	1,072	1,092	913	963	924	1,036	1,150
Earth sciences.....	10,311	10,288	8,976	8,032	7,544	7,759	7,582	6,959	6,637	6,596	6,544	6,712	6,889
Oceanography.....	2,063	2,081	2,135	2,214	2,395	2,627	2,723	2,479	2,624	2,668	2,585	2,618	2,695
Other geosciences.....	2,173	2,081	2,294	2,472	3,559	4,223	4,339	4,018	3,909	3,714	3,788	3,874	3,921
Mathematics/computer sciences.....	40,691	47,332	50,559	51,729	54,633	56,213	51,962	52,710	58,735	63,000	68,847	73,432	73,143
Computer sciences.....	23,333	29,769	32,051	32,482	34,681	36,213	33,458	35,991	42,478	47,350	52,196	55,269	53,678
Mathematics/statistics.....	17,358	17,563	18,508	19,247	19,952	20,000	18,504	16,719	16,257	15,650	16,651	18,163	19,465
Medical/other life sciences.....	43,466	46,030	48,258	51,836	58,620	68,581	77,174	79,578	82,074	79,775	80,378	85,621	92,632
Medical sciences.....	12,414	13,276	14,256	14,914	16,702	19,224	20,659	20,895	23,479	22,815	24,012	26,921	29,944
Other life sciences.....	31,052	32,754	34,002	36,922	41,918	49,357	56,515	58,683	58,595	56,960	56,366	58,700	62,688
Physical sciences.....	29,463	30,987	32,741	33,629	34,724	35,328	33,399	31,105	30,691	30,385	31,038	32,341	34,298
Astronomy.....	618	671	719	789	829	880	912	778	832	888	916	990	1,080
Chemistry.....	17,802	18,305	18,827	18,828	19,407	20,131	19,570	18,774	18,416	18,105	18,366	19,045	20,049
Physics.....	10,806	11,672	12,807	13,657	14,081	13,841	12,425	11,147	10,869	10,841	11,248	11,701	12,555
Other physical sciences.....	237	339	388	355	407	476	492	406	574	551	508	605	614
Social/behavioral sciences.....	112,242	110,685	113,877	119,679	132,103	143,334	143,076	139,211	136,711	133,793	136,149	141,380	146,851
Psychology.....	40,905	40,721	42,612	45,528	51,343	54,557	53,641	53,126	51,727	50,466	50,467	51,165	52,025
Social sciences.....	71,337	69,964	71,265	74,151	80,760	88,777	89,435	86,085	84,984	83,327	85,682	90,215	94,826
Anthropology.....	5,644	5,631	5,835	6,128	6,731	7,361	7,693	7,560	7,633	7,626	7,491	7,481	7,806
Economics.....	15,224	14,698	14,201	14,415	15,071	15,629	15,011	13,140	12,576	12,827	13,569	14,196	14,603
History of science.....	253	272	294	304	337	369	401	443	557	532	571	663	677
Linguistics.....	3,022	3,055	3,282	3,286	3,425	3,321	3,194	3,068	2,799	2,674	2,744	2,875	3,028
Political science/public administration....	27,417	26,621	27,429	29,194	31,707	35,076	34,298	32,083	31,372	31,131	31,805	34,934	36,855
Sociology.....	8,149	7,620	7,968	8,393	9,292	10,360	10,505	10,361	9,707	9,397	9,620	9,665	9,900
Other social sciences.....	11,628	12,067	12,256	12,431	14,197	16,661	18,333	19,430	20,340	19,140	19,882	20,401	21,957
<b>Male</b>													
S&E.....	250,928	258,216	267,941	268,725	284,897	294,476	279,305	264,497	262,675	262,109	271,157	287,087	298,530
Engineering.....	81,337	84,935	91,012	90,457	97,837	99,184	89,188	82,428	81,804	83,366	87,236	94,701	99,786

**S&E graduate enrollment, by field and sex: Selected years, 1983–2003**

Field and sex	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
Chemical.....	6,572	6,170	5,979	5,445	5,897	6,050	5,885	5,568	5,150	5,181	5,084	5,419	5,416
Civil .....	13,051	12,755	12,579	12,474	14,296	15,725	14,986	13,029	12,069	12,174	12,162	12,808	13,446
Electrical.....	23,227	25,768	28,301	29,742	31,260	30,977	26,707	26,237	26,689	28,075	29,888	32,678	33,954
Industrial.....	7,729	8,743	10,085	9,180	10,594	11,260	10,652	9,301	9,144	9,406	10,132	10,957	11,035
Materials.....	3,025	3,352	3,659	3,820	4,208	4,373	3,882	3,571	3,397	3,336	3,548	3,741	3,822
Mechanical .....	12,106	13,146	15,070	14,867	16,219	16,703	14,686	13,266	13,168	13,403	13,908	15,056	16,076
Other .....	13,445	12,626	12,548	11,648	11,570	10,513	9,398	8,744	9,261	8,853	9,548	10,873	12,592
Science.....	169,591	173,281	176,929	178,268	187,060	195,292	190,117	182,069	180,871	178,743	183,921	192,386	198,744
Natural sciences .....	109,989	115,931	119,402	119,883	124,821	130,391	127,014	122,954	124,771	125,060	129,753	136,379	141,106
Agricultural sciences.....	9,506	8,769	8,367	8,224	8,098	8,058	8,169	7,497	7,263	6,935	6,892	7,045	7,171
Biological sciences .....	26,013	25,932	26,013	26,348	27,372	29,081	29,629	28,229	27,338	26,475	26,590	27,706	28,812
Earth, atmospheric, and ocean sciences	11,548	11,489	10,581	9,776	10,015	10,695	10,282	9,132	8,358	8,188	7,949	7,993	8,100
Atmospheric sciences.....	766	807	784	734	778	887	835	829	671	695	626	703	776
Earth sciences .....	7,804	7,806	6,819	6,078	5,546	5,665	5,299	4,663	4,237	4,141	4,061	4,099	4,125
Oceanography .....	1,497	1,471	1,497	1,484	1,543	1,611	1,616	1,424	1,402	1,401	1,330	1,309	1,303
Other geosciences.....	1,481	1,405	1,481	1,480	2,148	2,532	2,532	2,216	2,048	1,951	1,932	1,882	1,896
Mathematics/computer sciences	28,877	34,417	36,948	37,756	40,045	41,144	37,571	36,961	40,147	43,140	47,275	50,521	51,063
Computer sciences .....	16,719	22,208	24,036	24,494	26,391	27,782	25,325	26,110	29,933	33,270	36,894	39,244	38,887
Mathematics/statistics.....	12,158	12,209	12,912	13,262	13,654	13,362	12,246	10,851	10,214	9,870	10,381	11,277	12,176
Medical/other life sciences.....	10,465	10,846	11,869	11,955	13,135	15,291	17,049	18,878	19,889	19,052	19,345	20,839	22,440
Medical sciences.....	6,545	6,634	7,388	7,172	8,044	8,967	9,355	9,626	10,303	9,748	10,136	11,054	12,030
Other life sciences.....	3,920	4,212	4,481	4,783	5,091	6,324	7,694	9,252	9,586	9,304	9,209	9,785	10,410
Physical sciences.....	23,580	24,478	25,624	25,824	26,156	26,122	24,314	22,257	21,776	21,270	21,702	22,275	23,520
Astronomy.....	526	563	601	649	657	682	689	570	607	621	651	688	735
Chemistry.....	13,290	13,516	13,649	13,158	13,145	13,279	12,742	12,052	11,799	11,349	11,511	11,720	12,210
Physics.....	9,605	10,175	11,134	11,789	12,101	11,865	10,590	9,403	8,993	8,931	9,206	9,500	10,189
Other physical sciences.....	159	224	240	228	253	296	293	232	377	369	334	367	386
Social/behavioral sciences.....	59,602	57,350	57,527	58,385	62,239	64,901	63,103	59,115	56,100	53,683	54,168	56,007	57,638
Psychology .....	16,648	15,597	15,683	15,673	16,556	16,567	15,877	15,507	14,456	13,594	13,149	13,437	13,357
Social sciences.....	42,954	41,753	41,844	42,712	45,683	48,334	47,226	43,608	41,644	40,089	41,019	42,570	44,281
Anthropology.....	2,438	2,510	2,482	2,548	2,778	2,969	3,140	3,059	2,989	2,941	2,929	2,864	2,942
Economics.....	11,603	11,134	10,683	10,591	10,876	11,023	10,352	8,940	8,362	8,273	8,739	9,084	9,208
History of science.....	161	180	198	192	205	227	262	281	345	313	327	362	390
Linguistics.....	1,217	1,198	1,305	1,334	1,512	1,301	1,194	1,051	966	930	951	984	1,023
Political science/public administration	16,924	16,276	16,563	17,024	17,971	19,320	18,348	16,679	15,799	15,204	15,304	16,315	17,025
Sociology.....	3,850	3,583	3,616	3,828	4,191	4,280	4,168	3,968	3,498	3,354	3,388	3,444	3,493
Other social sciences.....	6,761	6,872	6,997	7,195	8,150	9,214	9,762	9,630	9,685	9,074	9,381	9,517	10,200
Female													
S&E.....	139,504	145,805	153,556	165,753	186,315	209,828	220,335	222,711	230,581	231,202	238,463	253,426	268,305
Engineering.....	9,809	11,083	12,971	13,608	15,698	17,688	18,013	18,720	19,887	20,746	22,257	24,967	27,589
Aerospace.....	123	163	224	243	327	357	351	371	423	469	485	516	603
Chemical.....	1,018	1,007	1,162	1,037	1,260	1,504	1,567	1,720	1,733	1,875	1,829	1,995	2,100
Civil.....	1,859	2,147	2,103	2,435	3,102	3,858	4,232	4,164	4,157	4,277	4,503	4,905	5,392
Electrical.....	2,068	2,435	3,098	3,515	3,851	4,313	4,154	4,550	5,133	5,536	6,212	7,270	7,791
Industrial.....	1,518	1,782	2,268	2,153	2,402	2,645	2,823	2,656	2,659	2,713	2,808	3,076	3,260

**S&E graduate enrollment, by field and sex: Selected years, 1983–2003**

Field and sex	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
Materials.....	452	607	738	815	995	1,037	1,074	1,117	1,084	1,041	1,173	1,251	1,332
Mechanical .....	805	1,011	1,296	1,398	1,511	1,774	1,677	1,779	1,788	1,832	1,944	2,083	2,364
Other .....	1,966	1,931	2,082	2,012	2,250	2,200	2,135	2,363	2,910	3,003	3,303	3,871	4,747
Science .....	129,695	134,722	140,585	152,145	170,617	192,140	202,322	203,991	210,694	210,456	216,206	228,459	240,716
Natural sciences .....	77,055	81,387	84,235	90,851	100,753	113,707	122,349	123,895	130,083	130,346	134,225	143,086	151,503
Agricultural sciences.....	3,222	3,077	3,038	3,237	3,668	4,247	4,599	4,706	5,049	5,088	5,343	5,653	6,026
Biological sciences .....	19,240	19,777	20,304	22,101	23,993	26,869	28,715	28,476	29,621	29,807	31,049	33,427	35,872
Earth, atmospheric, and ocean sciences	3,895	3,925	3,776	3,854	4,451	5,026	5,434	5,416	5,725	5,753	5,892	6,247	6,555
Atmospheric sciences.....	130	157	168	178	190	225	237	263	242	268	298	333	374
Earth sciences .....	2,507	2,482	2,157	1,954	1,998	2,094	2,283	2,296	2,400	2,455	2,483	2,613	2,764
Oceanography .....	566	610	638	730	852	1,016	1,107	1,055	1,222	1,267	1,255	1,309	1,392
Other geosciences.....	692	676	813	992	1,411	1,691	1,807	1,802	1,861	1,763	1,856	1,992	2,025
Mathematics/computer sciences	11,814	12,915	13,611	13,973	14,588	15,069	14,391	15,749	18,588	19,860	21,572	22,911	22,080
Computer sciences.....	6,614	7,561	8,015	7,988	8,290	8,431	8,133	9,881	12,545	14,080	15,302	16,025	14,791
Mathematics/statistics.....	5,200	5,354	5,596	5,985	6,298	6,638	6,258	5,868	6,043	5,780	6,270	6,886	7,289
Medical/other life sciences.....	33,001	35,184	36,389	39,881	45,485	53,290	60,125	60,700	62,185	60,723	61,033	64,782	70,192
Medical sciences.....	5,869	6,642	6,868	7,742	8,658	10,257	11,304	11,269	13,176	13,067	13,876	15,867	17,914
Other life sciences .....	27,132	28,542	29,521	32,139	36,827	43,033	48,821	49,431	49,009	47,656	47,157	48,915	52,278
Physical sciences.....	5,883	6,509	7,117	7,805	8,568	9,206	9,085	8,848	8,915	9,115	9,336	10,066	10,778
Astronomy .....	92	108	118	140	172	198	223	208	225	267	265	302	345
Chemistry .....	4,512	4,789	5,178	5,670	6,262	6,852	6,828	6,722	6,617	6,756	6,855	7,325	7,839
Physics.....	1,201	1,497	1,673	1,868	1,980	1,976	1,835	1,744	1,876	1,910	2,042	2,201	2,366
Other physical sciences .....	78	115	148	127	154	180	199	174	197	182	174	238	228
Social/behavioral sciences .....	52,640	53,335	56,350	61,294	69,864	78,433	79,973	80,096	80,611	80,110	81,981	85,373	89,213
Psychology .....	24,257	25,124	26,929	29,855	34,787	37,990	37,764	37,619	37,271	36,872	37,318	37,728	38,668
Social sciences.....	28,383	28,211	29,421	31,439	35,077	40,443	42,209	42,477	43,340	43,238	44,663	47,645	50,545
Anthropology .....	3,206	3,121	3,353	3,580	3,953	4,392	4,553	4,501	4,644	4,685	4,562	4,617	4,864
Economics.....	3,621	3,564	3,518	3,824	4,195	4,606	4,659	4,200	4,214	4,554	4,830	5,112	5,395
History of science .....	92	92	96	112	132	142	139	162	212	219	244	301	287
Linguistics .....	1,805	1,857	1,977	1,952	1,913	2,020	2,000	2,017	1,833	1,744	1,793	1,891	2,005
Political science/public administration	10,493	10,345	10,866	12,170	13,736	15,756	15,950	15,404	15,573	15,927	16,501	18,619	19,830
Sociology.....	4,299	4,037	4,352	4,565	5,101	6,080	6,337	6,393	6,209	6,043	6,232	6,221	6,407
Other social sciences.....	4,867	5,195	5,259	5,236	6,047	7,447	8,571	9,800	10,655	10,066	10,501	10,884	11,757

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

**S&E graduate enrollment, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, citizenship, and race/ethnicity	1983	1985	1987	1989	1991	1993	1995	1996	1997	1998	1999	2000	2001	2002	2003
S&E .....	390,432	404,021	421,497	434,478	471,212	504,304	499,640	494,079	487,208	485,627	493,256	493,311	509,620	540,513	566,835
Engineering .....	91,146	96,018	103,983	104,065	113,535	116,872	107,201	103,224	101,148	100,038	101,691	104,112	109,493	119,668	127,375
Aerospace .....	2,305	2,538	3,015	3,524	4,120	3,940	3,343	3,208	3,083	3,137	3,349	3,407	3,451	3,685	4,048
Chemical .....	7,590	7,177	7,141	6,482	7,157	7,554	7,452	7,408	7,288	7,093	6,883	7,056	6,913	7,414	7,516
Civil .....	14,910	14,902	14,682	14,909	17,398	19,583	19,218	18,528	17,193	16,517	16,226	16,451	16,665	17,713	18,838
Electrical .....	25,295	28,203	31,399	33,257	35,111	35,290	30,861	29,941	30,787	31,384	31,822	33,611	36,100	39,948	41,745
Industrial .....	9,247	10,525	12,353	11,333	12,996	13,905	13,475	12,675	11,957	11,221	11,803	12,119	12,940	14,033	14,295
Materials .....	3,477	3,959	4,397	4,635	5,203	5,410	4,956	4,747	4,688	4,680	4,481	4,377	4,721	4,992	5,154
Mechanical .....	12,911	14,157	16,366	16,265	17,730	18,477	16,363	15,509	15,045	14,696	14,956	15,235	15,852	17,139	18,440
Other .....	15,411	14,557	14,630	13,660	13,820	12,713	11,533	11,208	11,107	11,310	12,171	11,856	12,851	14,744	17,339
Science .....	299,286	308,003	317,514	330,413	357,677	387,432	392,439	390,855	386,060	385,589	391,565	389,199	400,127	420,845	439,460
Natural sciences .....	187,044	197,318	203,637	210,734	225,574	244,098	249,363	249,098	246,849	248,979	254,854	255,406	263,978	279,465	292,609
Agricultural sciences .....	12,728	11,846	11,405	11,461	11,766	12,305	12,768	12,301	12,203	12,168	12,312	12,023	12,235	12,698	13,197
Biological sciences .....	45,253	45,709	46,317	48,449	51,365	55,950	58,344	57,749	56,705	56,695	56,959	56,282	57,639	61,133	64,684
Earth, atmospheric, and ocean sciences .....	15,443	15,414	14,357	13,630	14,466	15,721	15,716	15,183	14,548	14,258	14,083	13,941	13,841	14,240	14,655
Atmospheric sciences .....	896	964	952	912	968	1,112	1,072	1,086	1,092	965	913	963	924	1,036	1,150
Earth sciences .....	10,311	10,288	8,976	8,032	7,544	7,759	7,582	7,304	6,959	6,687	6,637	6,596	6,544	6,712	6,889
Oceanography .....	2,063	2,081	2,135	2,214	2,395	2,627	2,723	2,615	2,479	2,562	2,624	2,668	2,585	2,618	2,695
Other geosciences .....	2,173	2,081	2,294	2,472	3,559	4,223	4,339	4,178	4,018	4,044	3,909	3,714	3,788	3,874	3,921
Mathematics/computer sciences .....	40,691	47,332	50,559	51,729	54,633	56,213	51,962	52,634	52,710	54,512	58,735	63,000	68,847	73,432	73,143
Computer sciences .....	23,333	29,769	32,051	32,482	34,681	36,213	33,458	34,626	35,991	38,027	42,478	47,350	52,196	55,269	53,678
Mathematics/statistics .....	17,358	17,563	18,508	19,247	19,952	20,000	18,504	18,008	16,719	16,485	16,257	15,650	16,651	18,163	19,465
Medical/other life sciences .....	43,466	46,030	48,258	51,836	58,620	68,581	77,174	78,898	79,578	80,771	82,074	79,775	80,378	85,621	92,632
Medical sciences .....	12,414	13,276	14,256	14,914	16,702	19,224	20,659	20,594	20,895	22,331	23,479	22,815	24,012	26,921	29,944
Other life sciences .....	31,052	32,754	34,002	36,922	41,918	49,357	56,515	58,304	58,683	58,440	58,595	56,960	56,366	58,700	62,688
Physical sciences .....	29,463	30,987	32,741	33,629	34,724	35,328	33,399	32,333	31,105	30,575	30,691	30,385	31,038	32,341	34,298
Astronomy .....	618	671	719	789	829	880	912	874	778	820	832	888	916	990	1,080
Chemistry .....	17,802	18,305	18,827	18,828	19,407	20,131	19,570	19,334	18,774	18,482	18,416	18,105	18,366	19,045	20,049
Physics .....	10,806	11,672	12,807	13,657	14,081	13,841	12,425	11,728	11,147	10,809	10,869	10,841	11,248	11,701	12,555
Other physical sciences .....	237	339	388	355	407	476	492	397	406	464	574	551	508	605	614
Social/behavioral sciences .....	112,242	110,685	113,877	119,679	132,103	143,334	143,076	141,757	139,211	136,610	136,711	133,793	136,149	141,380	146,851
Psychology .....	40,905	40,721	42,612	45,528	51,343	54,557	53,641	53,122	53,126	52,557	51,727	50,466	50,467	51,165	52,025
Social sciences .....	71,337	69,964	71,265	74,151	80,760	88,777	89,435	88,635	86,085	84,053	84,984	83,327	85,682	90,215	94,826
Anthropology .....	5,644	5,631	5,835	6,128	6,731	7,361	7,693	7,773	7,560	7,577	7,633	7,626	7,491	7,481	7,806
Economics .....	15,224	14,698	14,201	14,415	15,071	15,629	15,011	14,197	13,140	12,696	12,576	12,827	13,569	14,196	14,603
History of science .....	253	272	294	304	337	369	401	409	443	508	557	532	571	663	677
Linguistics .....	3,022	3,055	3,282	3,286	3,425	3,321	3,194	3,156	3,068	2,935	2,799	2,674	2,744	2,875	3,028
Political science/public administration .....	27,417	26,621	27,429	29,194	31,707	35,076	34,298	33,252	32,083	30,828	31,372	31,131	31,805	34,934	36,855
Sociology .....	8,149	7,620	7,968	8,393	9,292	10,360	10,505	10,348	10,361	9,915	9,707	9,397	9,620	9,665	9,900
Other social sciences .....	11,628	12,067	12,256	12,431	14,197	16,661	18,333	19,500	19,430	19,594	20,340	19,140	19,882	20,401	21,957
U.S. citizen/permanent resident .....															
S&E .....	317,185	324,081	329,350	332,503	358,025	393,985	396,755	391,095	383,327	378,560	377,802	364,954	368,840	387,628	412,467
Engineering .....	63,649	67,187	70,594	67,365	72,181	77,577	71,717	68,168	64,642	62,249	60,188	56,711	56,971	61,362	67,554
Aerospace .....	1,506	1,729	2,144	2,431	2,892	2,739	2,157	1,935	1,765	1,720	1,817	1,894	1,805	1,999	2,361
Chemical .....	5,071	4,747	4,643	3,681	3,956	4,369	4,483	4,521	4,424	4,208	3,869	3,726	3,418	3,701	3,752

**S&E graduate enrollment, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, citizenship, and race/ethnicity	1983	1985	1987	1989	1991	1993	1995	1996	1997	1998	1999	2000	2001	2002	2003
Civil .....	9,680	9,515	9,095	9,074	10,854	13,299	13,559	13,263	12,090	11,555	10,801	10,306	10,072	10,553	11,439
Electrical .....	17,675	19,760	21,282	22,109	22,297	22,839	19,585	18,489	18,032	17,459	16,517	15,315	15,534	16,579	18,098
Industrial .....	7,537	8,578	9,734	8,392	9,190	10,428	10,123	9,349	8,616	7,869	8,073	7,574	7,607	8,318	8,877
Materials .....	2,229	2,590	2,704	2,687	3,027	3,237	3,029	2,827	2,721	2,670	2,438	2,265	2,385	2,482	2,561
Mechanical .....	8,313	9,370	10,855	10,450	11,056	12,199	10,905	10,026	9,351	9,046	8,760	8,097	8,183	8,604	9,638
Other .....	11,638	10,898	10,137	8,541	8,909	8,467	7,876	7,758	7,643	7,722	7,913	7,534	7,967	9,126	10,828
Science .....	253,536	256,894	258,756	265,138	285,844	316,408	325,038	322,927	318,685	316,311	317,614	308,243	311,869	326,266	344,913
Natural sciences .....	155,380	161,021	160,976	162,407	171,451	190,145	198,753	198,278	196,206	196,819	198,867	193,036	195,259	205,805	219,465
Agricultural sciences .....	9,868	9,096	8,401	8,422	8,466	9,083	9,567	9,283	9,414	9,514	9,774	9,612	9,722	10,085	10,619
Biological sciences .....	39,370	38,961	37,768	37,795	39,001	43,175	46,276	46,377	45,641	45,359	45,770	44,521	45,205	47,307	49,914
Earth, atmospheric, and ocean sciences .....	13,597	13,549	12,167	11,055	11,569	12,713	12,769	12,417	12,033	11,759	11,563	11,249	11,059	11,472	11,892
Atmospheric sciences .....	705	755	713	663	658	815	806	803	801	710	639	659	639	730	882
Earth sciences .....	9,301	9,263	7,763	6,628	6,010	6,088	6,039	5,847	5,666	5,443	5,413	5,294	5,189	5,333	5,456
Oceanography .....	1,661	1,736	1,731	1,651	1,785	2,037	2,102	2,058	1,972	2,029	2,108	2,142	2,071	2,152	2,206
Other geosciences .....	1,930	1,795	1,960	2,113	3,116	3,773	3,822	3,709	3,594	3,577	3,403	3,154	3,160	3,257	3,348
Mathematics/computer sciences .....	30,285	34,490	35,653	35,352	36,375	38,170	35,358	35,026	34,249	34,669	35,653	34,681	36,309	39,342	41,679
Computer sciences .....	17,880	22,272	23,274	22,788	23,057	24,304	22,663	22,779	23,074	23,605	25,323	25,088	26,142	28,203	29,535
Mathematics/statistics .....	12,405	12,218	12,379	12,564	13,318	13,866	12,695	12,247	11,175	11,064	10,330	9,593	10,167	11,139	12,144
Medical/other life sciences .....	40,422	42,880	44,874	47,927	54,041	63,928	72,793	74,020	74,659	75,681	76,548	74,243	74,129	78,348	85,135
Medical sciences .....	10,322	11,002	11,769	12,051	13,305	15,827	17,522	17,082	17,440	18,734	19,646	19,090	19,784	21,853	24,768
Other life sciences .....	30,100	31,878	33,105	35,876	40,736	48,101	55,271	56,938	57,219	56,947	56,902	55,153	54,345	56,495	60,367
Physical sciences .....	21,838	22,045	22,113	21,856	21,999	23,076	21,990	21,155	20,210	19,837	19,559	18,730	18,835	19,251	20,226
Astronomy .....	510	517	537	625	612	663	680	658	593	607	593	617	633	687	747
Chemistry .....	13,992	13,934	13,528	12,721	12,509	13,456	13,156	13,059	12,662	12,457	12,331	11,883	11,797	11,792	12,210
Physics .....	7,120	7,278	7,692	8,188	8,511	8,557	7,745	7,098	6,608	6,379	6,140	5,757	5,991	6,259	6,757
Other physical sciences .....	216	316	356	322	367	400	409	340	347	394	495	473	414	513	512
Social/behavioral sciences .....	98,156	95,873	97,780	102,731	114,393	126,263	126,285	124,649	122,479	119,492	118,747	115,207	116,610	120,461	125,448
Psychology .....	39,472	39,229	41,073	43,897	49,355	52,676	51,554	51,149	51,118	50,371	49,488	48,203	47,946	48,308	48,845
Social sciences .....	58,684	56,644	56,707	58,834	65,038	73,587	74,731	73,500	71,361	69,121	69,259	67,004	68,664	72,153	76,603
Anthropology .....	5,163	5,090	5,173	5,365	5,907	6,561	6,999	7,083	6,858	6,838	6,810	6,797	6,722	6,634	6,957
Economics .....	10,202	9,234	8,493	8,182	8,589	9,204	8,624	7,776	6,837	6,552	6,118	6,006	6,233	6,530	6,944
History of science .....	212	217	251	264	286	314	355	359	376	441	498	463	501	595	616
Linguistics .....	2,083	1,983	2,179	2,109	2,166	2,260	2,197	2,154	2,086	1,912	1,837	1,714	1,782	1,893	2,065
Political science/public administration .....	24,076	23,446	23,712	25,648	28,099	31,545	30,920	29,709	28,657	27,276	27,453	26,972	27,582	30,280	31,978
Sociology .....	6,667	6,044	6,267	6,589	7,570	8,809	9,209	9,130	9,107	8,696	8,449	8,065	8,228	8,275	8,485
Other social sciences .....	10,281	10,630	10,632	10,677	12,421	14,894	16,427	17,289	17,440	17,406	18,094	16,987	17,616	17,946	19,558
White S&E .....	259,261	259,332	266,111	269,670	288,765	309,131	304,438	297,164	286,607	279,450	275,325	261,112	260,380	270,085	282,768
Engineering .....	48,626	50,159	53,818	51,503	54,738	57,415	51,931	49,089	46,093	44,098	42,063	39,083	38,459	40,559	43,437
Aerospace .....	1,121	1,342	1,631	2,015	2,196	2,071	1,774	1,577	1,440	1,391	1,437	1,451	1,434	1,512	1,747
Chemical .....	4,279	3,883	3,844	3,107	3,157	3,407	3,429	3,394	3,365	3,124	2,805	2,627	2,417	2,565	2,554
Civil .....	7,564	7,327	7,066	7,337	8,684	10,415	10,434	9,983	9,208	8,665	8,088	7,759	7,492	7,707	8,316
Electrical .....	12,107	13,461	14,922	15,818	15,508	15,606	12,630	11,759	11,092	10,729	9,897	8,982	8,876	9,121	9,700

**S&E graduate enrollment, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, citizenship, and race/ethnicity	1983	1985	1987	1989	1991	1993	1995	1996	1997	1998	1999	2000	2001	2002	2003
Industrial.....	6,279	7,055	8,021	6,731	7,275	7,681	7,262	6,864	6,391	5,764	5,761	5,329	5,255	5,668	5,679
Materials .....	1,886	2,108	2,276	2,226	2,533	2,575	2,402	2,261	2,019	2,079	1,935	1,751	1,839	1,882	1,923
Mechanical .....	6,788	7,159	7,984	7,633	8,416	9,029	8,059	7,461	6,979	6,657	6,491	6,005	5,932	6,254	6,847
Other .....	8,602	7,824	8,074	6,636	6,969	6,631	5,941	5,790	5,599	5,689	5,649	5,179	5,214	5,850	6,671
Science.....	210,635	209,173	212,293	218,167	234,027	251,716	252,507	248,075	240,514	235,352	233,262	222,029	221,921	229,526	239,331
Natural sciences .....	132,716	133,142	133,184	134,647	141,586	152,198	156,251	154,536	149,950	148,560	148,357	142,528	141,957	148,299	155,893
Agricultural sciences.....	8,926	8,062	7,627	7,460	7,628	7,977	8,233	7,983	7,990	8,093	8,383	8,152	8,147	8,486	8,740
Biological sciences .....	34,451	33,741	32,370	32,107	32,823	34,819	36,279	36,116	34,778	34,323	34,319	33,255	33,193	34,586	35,787
Earth, atmospheric, and ocean sciences.....	12,238	11,756	10,912	10,126	10,519	11,076	11,245	10,873	10,402	10,098	10,007	9,812	9,573	9,799	9,995
Atmospheric sciences.....	597	708	657	594	589	714	691	709	657	601	552	557	547	623	713
Earth sciences.....	8,489	7,912	7,081	6,109	5,492	5,365	5,388	5,212	4,989	4,776	4,796	4,720	4,603	4,639	4,691
Oceanography .....	1,422	1,507	1,431	1,473	1,556	1,711	1,825	1,752	1,699	1,732	1,815	1,872	1,769	1,845	1,871
Other geosciences.....	1,730	1,629	1,743	1,950	2,882	3,286	3,341	3,200	3,057	2,989	2,844	2,663	2,654	2,692	2,720
Mathematics/computer sciences ...	23,802	25,511	26,806	26,560	26,984	27,376	24,427	23,675	22,413	22,045	22,036	21,423	22,443	23,885	25,614
Computer sciences.....	13,543	15,724	17,156	16,496	16,527	16,804	14,773	14,479	14,062	13,948	14,377	14,468	15,057	15,962	17,199
Mathematics/statistics.....	10,259	9,787	9,650	10,064	10,457	10,572	9,654	9,196	8,351	8,097	7,659	6,955	7,386	7,923	8,415
Medical/other life sciences .....	34,643	35,744	37,370	40,065	45,218	52,359	58,581	59,132	58,600	58,783	58,575	55,543	54,353	56,923	60,650
Medical sciences.....	8,351	8,769	9,154	9,195	10,077	11,546	12,372	11,967	11,915	12,456	12,763	12,017	12,492	14,364	15,846
Other life sciences.....	26,292	26,975	28,216	30,870	35,141	40,813	46,209	47,165	46,685	46,327	45,812	43,526	41,861	42,559	44,804
Physical sciences .....	18,656	18,328	18,099	18,329	18,414	18,591	17,486	16,757	15,767	15,218	15,037	14,343	14,248	14,620	15,107
Astronomy .....	461	472	486	553	544	580	577	570	514	507	511	523	527	570	610
Chemistry.....	11,746	11,378	10,763	10,498	10,414	10,687	10,297	10,203	9,712	9,484	9,394	9,028	8,977	8,926	8,955
Physics.....	6,272	6,227	6,561	7,003	7,164	7,005	6,250	5,696	5,268	4,967	4,840	4,514	4,485	4,789	5,209
Other physical sciences.....	177	251	289	275	292	319	362	288	273	260	292	278	259	335	333
Social/behavioral sciences.....	77,919	76,031	79,109	83,520	92,441	99,518	96,256	93,539	90,564	86,792	84,905	79,501	79,964	81,227	83,438
Psychology .....	32,716	32,757	34,785	37,227	40,990	42,662	40,146	39,327	38,724	37,622	36,267	33,801	33,578	33,473	33,409
Social sciences.....	45,203	43,274	44,324	46,293	51,451	56,856	56,110	54,212	51,840	49,170	48,638	45,700	46,386	47,754	50,029
Anthropology .....	4,559	4,553	4,448	4,631	5,116	5,581	5,815	5,867	5,641	5,549	5,440	5,311	5,190	5,153	5,311
Economics.....	8,287	7,166	6,674	6,527	6,832	7,173	6,691	5,934	5,107	4,688	4,476	4,314	4,392	4,481	4,744
History of science.....	208	210	223	227	269	294	317	312	303	380	424	386	414	426	467
Linguistics.....	1,743	1,672	1,720	1,670	1,697	1,770	1,688	1,689	1,518	1,404	1,375	1,237	1,293	1,335	1,418
Political science/ public administration.....	17,089	16,772	18,132	19,529	21,657	24,044	22,413	20,955	19,984	18,526	18,317	17,401	17,635	18,785	19,504
Sociology.....	5,361	4,796	4,833	5,233	5,944	6,552	6,673	6,601	6,446	5,978	5,796	5,445	5,590	5,549	5,602
Other social sciences.....	7,956	8,105	8,294	8,476	9,936	11,442	12,513	12,854	12,841	12,645	12,810	11,606	11,872	12,025	12,983
Asian/Pacific Islander S&E .....	10,333	12,954	15,669	17,109	20,060	26,853	29,361	29,926	30,371	31,615	32,717	30,250	32,035	35,041	38,940
Engineering.....	3,406	4,805	5,850	6,020	7,111	8,996	9,018	8,440	8,133	8,012	8,161	7,274	8,007	9,384	10,908
Aerospace.....	64	84	109	143	196	224	177	159	153	140	153	206	138	186	207
Chemical .....	311	277	349	244	399	461	458	482	512	469	486	501	494	566	556
Civil .....	443	436	582	597	837	1,167	1,322	1,254	1,050	1,104	931	744	771	855	1,024
Electrical.....	1,171	1,966	2,453	2,703	3,021	3,746	3,712	3,548	3,489	3,443	3,491	3,119	3,454	4,079	4,600
Industrial.....	218	326	442	455	596	883	855	750	739	643	784	628	686	878	1,057
Materials .....	152	219	241	276	260	336	311	272	295	272	240	246	244	298	316

**S&E graduate enrollment, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, citizenship, and race/ethnicity	1983	1985	1987	1989	1991	1993	1995	1996	1997	1998	1999	2000	2001	2002	2003
Mechanical .....	425	794	883	824	985	1,307	1,225	1,073	947	973	1,008	804	945	912	1,027
Other .....	622	703	791	778	817	872	958	902	948	968	1,068	1,026	1,275	1,610	2,121
Science.....	6,927	8,149	9,819	11,089	12,949	17,857	20,343	21,486	22,238	23,603	24,556	22,976	24,028	25,657	28,032
Natural sciences .....	5,030	6,159	7,383	8,442	9,920	13,532	15,402	16,389	16,879	18,220	19,161	17,843	18,634	19,746	21,432
Agricultural sciences.....	144	139	172	228	227	282	282	291	309	315	310	250	262	286	326
Biological sciences.....	1,249	1,440	1,642	1,972	2,333	3,433	4,298	4,458	4,479	4,439	4,476	4,246	4,710	4,855	5,210
Earth, atmospheric, and ocean sciences.....	240	194	179	207	267	462	419	409	417	424	400	351	341	355	375
Atmospheric sciences.....	10	25	37	45	28	55	69	52	56	55	41	41	26	31	67
Earth sciences.....	119	110	68	95	136	217	151	145	166	153	144	132	139	149	126
Oceanography.....	87	27	44	31	37	66	83	80	60	62	67	64	51	64	48
Other geosciences.....	24	32	30	36	66	124	116	132	135	154	148	114	125	111	134
Mathematics/computer sciences ...	1,666	2,491	3,235	3,430	3,729	4,577	5,164	5,489	5,677	6,393	7,146	6,280	6,412	7,137	7,402
Computer sciences.....	1,102	1,868	2,466	2,727	2,863	3,557	4,043	4,266	4,626	5,219	6,144	5,332	5,427	5,953	5,956
Mathematics/statistics.....	564	623	769	703	866	1,020	1,121	1,223	1,051	1,174	1,002	948	985	1,184	1,446
Medical/other life sciences .....	946	958	1,108	1,430	1,935	2,805	3,459	3,997	4,359	4,889	5,147	5,192	5,451	5,689	6,490
Medical sciences.....	454	451	555	655	965	1,458	1,729	1,957	2,074	2,400	2,490	2,437	2,495	2,506	2,949
Other life sciences.....	492	507	553	775	970	1,347	1,730	2,040	2,285	2,489	2,657	2,755	2,956	3,183	3,541
Physical sciences .....	785	937	1,047	1,175	1,429	1,973	1,780	1,745	1,638	1,760	1,682	1,524	1,458	1,424	1,629
Astronomy.....	7	6	14	36	30	24	30	38	39	32	31	33	36	44	53
Chemistry.....	564	660	715	680	820	1,186	1,122	1,144	1,106	1,179	1,133	1,079	983	950	1,103
Physics.....	207	265	304	452	557	732	611	542	467	528	490	393	422	405	441
Other physical sciences.....	7	6	14	7	22	31	17	21	26	21	28	19	17	25	32
Social/behavioral sciences.....	1,897	1,990	2,436	2,647	3,029	4,325	4,941	5,097	5,359	5,383	5,395	5,133	5,394	5,911	6,600
Psychology .....	531	559	727	817	1,040	1,470	1,598	1,757	1,909	2,019	2,038	2,063	2,176	2,186	2,384
Social sciences.....	1,366	1,431	1,709	1,830	1,989	2,855	3,343	3,340	3,450	3,364	3,357	3,070	3,218	3,725	4,216
Anthropology .....	67	53	98	109	117	172	208	242	236	241	256	260	253	252	281
Economics.....	339	314	414	427	424	639	646	589	601	665	650	506	524	623	728
History of science.....	1	3	10	15	7	12	14	18	21	22	20	20	21	28	29
Linguistics.....	51	45	109	83	91	139	179	181	212	187	148	106	154	183	215
Political science/ public administration.....	547	676	651	710	810	1,025	1,227	1,155	1,264	1,180	1,163	1,206	1,225	1,489	1,622
Sociology.....	168	155	191	212	220	343	434	451	420	414	406	367	374	387	456
Other social sciences.....	193	185	236	274	320	525	635	704	696	655	714	605	667	763	885
Black															
S&E .....	12,775	12,405	12,409	14,034	16,406	20,433	22,148	22,972	23,560	24,261	25,200	25,928	27,075	28,729	31,207
Engineering.....	1,378	1,387	1,416	1,616	2,025	2,561	2,857	2,899	2,879	2,821	2,965	2,977	2,915	3,074	3,212
Aerospace.....	15	24	25	27	44	56	51	47	35	34	52	57	45	51	59
Chemical .....	88	71	87	79	119	160	175	191	172	185	147	168	167	160	173
Civil .....	170	182	160	244	279	393	471	491	443	410	450	448	431	453	427
Electrical.....	365	455	422	564	669	864	821	778	874	874	886	830	812	846	812
Industrial.....	308	234	276	264	394	451	541	535	489	465	541	557	591	616	685
Materials .....	38	33	24	37	57	75	88	104	112	75	92	94	107	112	111
Mechanical .....	135	161	187	200	246	336	403	417	428	412	375	396	354	358	382
Other .....	259	227	235	201	217	226	307	336	326	366	422	427	408	478	563

**S&E graduate enrollment, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, citizenship, and race/ethnicity	1983	1985	1987	1989	1991	1993	1995	1996	1997	1998	1999	2000	2001	2002	2003
Science.....	11,397	11,018	10,993	12,418	14,381	17,872	19,291	20,073	20,681	21,440	22,235	22,951	24,160	25,655	27,995
Natural sciences.....	4,784	4,966	5,009	5,663	6,633	8,233	8,998	9,376	9,724	10,178	10,650	10,849	11,695	12,594	14,109
Agricultural sciences.....	132	138	133	160	157	268	308	304	288	344	310	292	327	375	462
Biological sciences.....	1,158	1,181	1,053	1,203	1,296	1,701	1,871	1,974	2,105	2,141	2,218	2,241	2,351	2,480	2,762
Earth, atmospheric, and ocean sciences.....	114	127	93	95	140	223	215	219	203	202	213	220	227	266	270
Atmospheric sciences.....	9	7	2	7	6	13	18	15	12	8	7	18	19	25	32
Earth sciences.....	61	70	49	43	54	65	67	70	56	59	62	56	57	64	75
Oceanography.....	21	18	14	21	24	30	34	33	26	25	28	28	31	36	35
Other geosciences.....	23	32	28	24	56	115	96	101	109	110	116	118	120	141	128
Mathematics/computer sciences ...	971	1,031	1,210	1,311	1,617	1,877	1,844	1,987	1,957	1,968	2,079	2,084	2,299	2,524	2,603
Computer sciences.....	568	622	769	848	1,093	1,167	1,155	1,276	1,300	1,355	1,485	1,512	1,709	1,898	1,945
Mathematics/statistics.....	403	409	441	463	524	710	689	711	657	613	594	572	590	626	658
Medical/other life sciences.....	1,834	1,954	1,984	2,261	2,723	3,320	3,863	3,906	4,219	4,610	4,927	5,094	5,616	6,056	7,073
Medical sciences.....	430	509	558	568	818	1,034	1,179	1,182	1,239	1,602	1,728	1,780	1,829	1,964	2,423
Other life sciences.....	1,404	1,445	1,426	1,693	1,905	2,286	2,684	2,724	2,980	3,008	3,199	3,314	3,787	4,092	4,650
Physical sciences.....	575	535	536	633	700	844	897	986	952	913	903	918	875	893	939
Astronomy.....	7	6	6	6	11	12	11	14	11	9	9	9	12	10	9
Chemistry.....	439	381	374	440	477	594	624	679	667	635	633	650	631	636	663
Physics.....	107	121	136	173	189	211	248	280	245	242	234	235	211	220	236
Other physical sciences.....	22	27	20	14	23	27	14	13	29	27	27	24	21	27	31
Social/behavioral sciences.....	6,613	6,052	5,984	6,755	7,748	9,639	10,293	10,697	10,957	11,262	11,585	12,102	12,465	13,061	13,886
Psychology.....	1,880	1,790	1,794	2,061	2,455	3,284	3,359	3,452	3,644	3,813	3,749	4,214	4,347	4,491	4,670
Social sciences.....	4,733	4,262	4,190	4,694	5,293	6,355	6,934	7,245	7,313	7,449	7,836	7,888	8,118	8,570	9,216
Anthropology.....	82	95	101	116	132	176	215	251	254	266	291	270	274	248	275
Economics.....	419	392	379	359	365	482	468	433	389	387	375	397	390	405	439
History of science.....	3	2	5	3	5	4	8	10	8	12	14	14	16	24	24
Linguistics.....	72	119	142	151	145	63	51	43	45	46	49	44	47	44	49
Political science/ public administration.....	2,660	2,143	2,133	2,500	2,831	3,258	3,552	3,627	3,699	3,795	4,097	4,073	4,264	4,632	4,847
Sociology.....	620	580	557	598	752	985	1,096	1,137	1,161	1,213	1,159	1,098	1,132	1,132	1,201
Other social sciences.....	877	931	873	967	1,063	1,387	1,544	1,744	1,757	1,730	1,851	1,992	1,995	2,085	2,381
Hispanic															
S&E.....	10,233	10,138	10,533	11,205	13,053	16,050	17,237	17,742	18,154	18,765	20,322	21,327	22,329	24,288	26,699
Engineering.....	1,441	1,481	1,730	1,707	2,124	2,696	2,808	2,936	2,812	2,900	2,924	3,018	3,183	3,461	3,976
Aerospace.....	28	33	37	49	54	70	65	62	71	76	80	80	71	92	119
Chemical.....	89	107	117	111	159	181	202	200	142	179	182	182	180	206	249
Civil.....	268	251	263	275	383	550	593	712	694	723	701	776	747	778	845
Electrical.....	394	443	521	558	661	842	785	793	810	812	769	717	825	941	1,093
Industrial.....	224	254	286	242	257	337	386	421	396	364	426	439	469	477	561
Materials.....	54	37	49	53	56	76	102	89	86	84	75	84	80	79	97
Mechanical.....	125	181	282	214	338	382	422	383	360	389	388	366	407	450	537
Other.....	259	175	175	205	216	258	253	276	253	273	303	374	404	438	475
Science.....	8,792	8,657	8,803	9,498	10,929	13,354	14,429	14,806	15,342	15,865	17,398	18,309	19,146	20,827	22,723
Natural sciences.....	3,957	4,367	4,598	5,003	5,540	6,853	7,399	7,637	7,899	8,132	9,016	9,269	9,787	10,585	12,064

**S&E graduate enrollment, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, citizenship, and race/ethnicity	1983	1985	1987	1989	1991	1993	1995	1996	1997	1998	1999	2000	2001	2002	2003
Agricultural sciences.....	229	322	222	299	279	309	292	376	411	391	422	440	425	406	496
Biological sciences .....	903	933	1,030	1,196	1,369	1,647	1,822	1,849	1,987	2,053	2,185	2,183	2,338	2,590	2,849
Earth, atmospheric, and ocean sciences.....	224	238	227	208	250	370	365	374	399	370	400	355	397	413	484
Atmospheric sciences.....	10	11	10	8	24	15	10	11	12	13	7	12	15	16	21
Earth sciences.....	86	105	99	109	116	160	152	141	161	137	154	136	155	163	187
Oceanography .....	116	98	90	68	59	102	99	106	116	108	132	113	137	131	158
Other geosciences.....	12	24	28	23	51	93	104	116	110	112	107	94	90	103	118
Mathematics/computer sciences ...	615	750	817	847	980	1,110	1,064	1,125	1,150	1,208	1,312	1,323	1,376	1,546	1,703
Computer sciences.....	285	488	551	542	631	695	664	700	723	754	865	863	894	1,004	1,099
Mathematics/statistics.....	330	262	266	305	349	415	400	425	427	454	447	460	482	542	604
Medical/other life sciences .....	1,423	1,525	1,711	1,772	2,013	2,670	3,125	3,171	3,170	3,278	3,802	4,124	4,355	4,649	5,435
Medical sciences.....	463	450	539	617	769	1,051	1,125	1,110	1,055	1,147	1,493	1,533	1,734	1,671	1,876
Other life sciences.....	960	1,075	1,172	1,155	1,244	1,619	2,000	2,061	2,115	2,131	2,309	2,591	2,621	2,978	3,559
Physical sciences .....	563	599	591	681	649	747	731	742	782	832	895	844	896	981	1,097
Astronomy .....	7	7	8	13	11	13	16	13	11	12	13	17	17	17	25
Chemistry.....	403	438	419	464	398	472	485	504	523	562	618	602	629	668	750
Physics.....	150	151	159	195	233	252	219	216	237	226	229	202	239	274	300
Other physical sciences.....	3	3	5	9	7	10	11	9	11	32	35	23	11	22	22
Social/behavioral sciences.....	4,835	4,290	4,205	4,495	5,389	6,501	7,030	7,169	7,443	7,733	8,382	9,040	9,359	10,242	10,659
Psychology .....	1,814	1,611	1,665	1,751	2,365	2,562	2,799	2,937	3,075	3,228	3,567	4,145	4,309	4,655	4,682
Social sciences.....	3,021	2,679	2,540	2,744	3,024	3,939	4,231	4,232	4,368	4,505	4,815	4,895	5,050	5,587	5,977
Anthropology .....	132	151	152	162	207	248	345	336	338	344	327	368	383	409	435
Economics.....	341	315	292	305	336	391	419	370	330	318	283	277	346	362	411
History of science.....	0	2	3	3	4	3	4	8	10	12	22	17	18	55	38
Linguistics.....	109	68	93	128	132	165	138	131	157	150	135	142	126	140	136
Political science/ public administration.....	1,753	1,445	1,254	1,390	1,453	1,902	1,927	1,895	1,926	1,989	2,166	2,303	2,223	2,587	2,746
Sociology.....	275	231	249	276	353	485	531	546	625	643	674	634	636	686	709
Other social sciences.....	411	467	497	480	539	745	867	946	982	1,049	1,208	1,154	1,318	1,348	1,502
American Indian/Alaska Native S&E .....	1,091	871	943	1,068	1,365	1,605	1,856	1,906	1,969	2,036	1,994	2,021	2,136	2,241	2,392
Engineering.....	180	122	123	122	184	209	230	234	239	236	242	208	227	244	304
Aerospace Engineering.....	1	2	5	5	5	8	8	5	3	7	8	8	8	11	15
Chemical .....	11	8	26	10	22	14	21	31	18	21	16	20	13	21	19
Civil .....	23	16	9	22	34	43	42	48	58	43	56	39	43	58	65
Electrical.....	48	30	18	37	38	43	51	50	46	33	47	37	45	39	63
Industrial.....	16	11	24	15	39	36	24	22	23	34	39	41	43	34	52
Materials .....	27	6	2	5	3	4	8	8	11	33	10	5	8	11	8
Mechanical .....	19	25	23	13	21	30	44	35	35	25	33	27	32	32	42
Other .....	35	24	16	15	22	31	32	35	45	40	33	31	35	38	40
Science.....	911	749	820	946	1,181	1,396	1,626	1,672	1,730	1,800	1,752	1,813	1,909	1,997	2,088
Natural sciences .....	457	381	420	462	559	716	859	836	884	965	932	905	992	1,064	1,104
Agricultural sciences.....	34	22	29	26	31	37	62	48	62	71	69	56	58	76	77
Biological sciences .....	118	88	90	84	129	155	203	200	197	191	186	189	205	211	236

**S&E graduate enrollment, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, citizenship, and race/ethnicity	1983	1985	1987	1989	1991	1993	1995	1996	1997	1998	1999	2000	2001	2002	2003
Earth, atmospheric, and ocean sciences.....	27	23	18	26	29	45	52	65	82	84	63	61	70	81	63
Atmospheric sciences.....	1	0	0	0	0	2	4	3	2	2	2	3	4	4	5
Earth sciences.....	18	17	16	19	20	27	27	31	38	36	26	27	32	36	26
Oceanography.....	3	2	1	0	3	3	8	12	17	16	12	10	12	11	8
Other geosciences.....	5	4	1	7	6	13	13	19	25	30	23	21	22	30	24
Mathematics/computer sciences ...	53	79	76	74	63	102	126	95	103	126	104	105	125	107	129
Computer sciences.....	22	57	28	40	43	70	56	54	60	92	74	80	87	83	104
Mathematics/statistics.....	31	22	48	34	20	32	70	41	43	34	30	25	38	24	25
Medical/other life sciences .....	180	134	161	208	245	296	340	368	370	429	441	419	453	506	520
Medical sciences.....	51	39	37	61	65	65	82	74	98	110	125	113	124	139	169
Other life sciences.....	129	95	124	147	180	231	258	294	272	319	316	306	329	367	351
Physical sciences.....	45	35	46	44	62	81	76	60	70	64	69	75	81	83	79
Astronomy.....	1	1	1	0	2	3	3	2	1	2	2	1	0	2	3
Chemistry.....	32	25	29	25	43	54	43	45	50	46	53	61	62	58	51
Physics.....	12	9	16	19	15	22	30	13	18	14	13	12	19	22	24
Other physical sciences.....	0	0	0	0	2	2	0	0	1	2	1	1	0	1	1
Social/behavioral sciences.....	454	368	400	484	622	680	767	836	846	835	820	908	917	933	984
Psychology.....	135	135	152	180	252	289	330	359	341	311	300	360	334	320	322
Social sciences.....	319	233	248	304	370	391	437	477	505	524	520	548	583	613	662
Anthropology.....	38	21	36	53	68	79	103	106	103	119	105	109	102	89	99
Economics.....	33	17	19	70	57	23	26	21	19	21	20	24	25	32	38
History of science.....	0	0	0	0	0	0	1	0	1	1	2	2	2	2	4
Linguistics.....	12	8	13	10	7	3	9	4	7	9	15	13	13	12	16
Political science/ public administration.....	114	108	98	91	114	139	140	154	155	172	177	175	192	217	240
Sociology.....	63	34	38	37	55	62	58	71	86	76	75	75	82	82	83
Other social sciences.....	59	45	44	43	69	85	100	121	134	126	126	150	167	179	182
Other/unknown race/ethnicity															
S&E .....	23,492	28,381	23,685	19,417	18,376	19,913	21,715	21,385	22,666	22,433	22,244	24,316	24,885	27,244	30,461
Engineering.....	8,618	9,233	7,657	6,397	5,999	5,700	4,873	4,570	4,486	4,182	3,833	4,151	4,180	4,640	5,717
Aerospace.....	277	244	337	192	397	310	82	85	63	72	87	92	109	147	214
Chemical.....	293	401	220	130	100	146	198	223	215	230	233	228	147	183	201
Civil.....	1,212	1,303	1,015	599	637	731	697	775	637	610	575	540	588	702	762
Electrical.....	3,590	3,405	2,946	2,429	2,400	1,738	1,586	1,561	1,721	1,568	1,427	1,630	1,522	1,553	1,830
Industrial.....	492	698	685	685	629	1,040	1,055	757	578	599	522	580	563	645	843
Materials.....	72	187	112	90	118	171	118	93	198	127	86	85	107	100	106
Mechanical.....	821	1,050	1,496	1,566	1,050	1,115	752	657	602	590	465	499	513	598	803
Other.....	1,861	1,945	846	706	668	449	385	419	472	386	438	497	631	712	958
Science.....	14,874	19,148	16,028	13,020	12,377	14,213	16,842	16,815	18,180	18,251	18,411	20,165	20,705	22,604	24,744
Natural sciences.....	8,436	12,006	10,382	8,190	7,213	8,613	9,844	9,504	10,870	10,764	10,751	11,642	12,194	13,517	14,863
Agricultural sciences.....	403	413	218	249	144	210	390	281	354	300	280	422	503	456	518
Biological sciences.....	1,491	1,578	1,583	1,233	1,051	1,420	1,803	1,780	2,095	2,212	2,386	2,407	2,408	2,585	3,070
Earth, atmospheric, and ocean sciences.....	754	1,211	738	393	364	537	473	477	530	581	480	450	451	558	705

**S&E graduate enrollment, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, citizenship, and race/ethnicity	1983	1985	1987	1989	1991	1993	1995	1996	1997	1998	1999	2000	2001	2002	2003
Atmospheric sciences.....	78	4	7	9	11	16	14	13	62	31	30	28	28	31	44
Earth sciences.....	528	1,049	450	253	192	254	254	248	256	282	231	223	203	282	351
Oceanography.....	12	84	151	58	106	125	53	75	54	86	54	55	71	65	86
Other geosciences.....	136	74	130	73	55	142	152	141	158	182	165	144	149	180	224
Mathematics/computer sciences ...	3,178	4,628	3,509	3,130	3,002	3,128	2,733	2,655	2,949	2,929	2,976	3,466	3,654	4,143	4,228
Computer sciences.....	2,360	3,513	2,304	2,135	1,900	2,011	1,972	2,004	2,303	2,237	2,378	2,833	2,968	3,303	3,232
Mathematics/statistics.....	818	1,115	1,205	995	1,102	1,117	761	651	646	692	598	633	686	840	996
Medical/other life sciences.....	1,396	2,565	2,540	2,191	1,907	2,478	3,425	3,446	3,941	3,692	3,656	3,871	3,901	4,525	4,967
Medical sciences.....	573	784	926	955	611	673	1,035	792	1,059	1,019	1,047	1,210	1,110	1,209	1,505
Other life sciences.....	823	1,781	1,614	1,236	1,296	1,805	2,390	2,654	2,882	2,673	2,609	2,661	2,791	3,316	3,462
Physical sciences.....	1,214	1,611	1,794	994	745	840	1,020	865	1,001	1,050	973	1,026	1,277	1,250	1,375
Astronomy.....	27	25	22	17	14	31	43	21	17	45	27	34	41	44	47
Chemistry.....	808	1,052	1,228	614	357	463	585	484	604	551	500	463	515	554	688
Physics.....	372	505	516	346	353	335	387	351	373	402	334	401	615	549	547
Other physical sciences.....	7	29	28	17	21	11	5	9	7	52	112	128	106	103	93
Social/behavioral sciences.....	6,438	7,142	5,646	4,830	5,164	5,600	6,998	7,311	7,310	7,487	7,660	8,523	8,511	9,087	9,881
Psychology.....	2,396	2,377	1,950	1,861	2,253	2,409	3,322	3,317	3,425	3,378	3,567	3,620	3,202	3,183	3,378
Social sciences.....	4,042	4,765	3,696	2,969	2,911	3,191	3,676	3,994	3,885	4,109	4,093	4,903	5,309	5,904	6,503
Anthropology.....	285	217	338	294	267	305	313	281	286	319	391	479	520	483	556
Economics.....	783	1,030	715	494	575	496	374	429	391	473	314	488	556	627	584
History of science.....	0	0	10	16	1	1	11	11	33	14	16	24	30	60	54
Linguistics.....	96	71	102	67	94	120	132	106	147	116	115	172	149	179	231
Political science/ public administration.....	1,913	2,302	1,444	1,428	1,234	1,177	1,661	1,923	1,629	1,614	1,533	1,814	2,043	2,570	3,019
Sociology.....	180	248	399	233	246	382	417	324	369	372	339	446	414	439	434
Other social sciences.....	785	897	688	437	494	710	768	920	1,030	1,201	1,385	1,480	1,597	1,546	1,625
Temporary resident															
S&E.....	73,247	79,940	92,147	101,975	113,187	110,319	102,885	102,984	103,881	107,067	115,454	128,357	140,780	152,885	154,368
Engineering.....	27,497	28,831	33,389	36,700	41,354	39,295	35,484	35,056	36,506	37,789	41,503	47,401	52,522	58,306	59,821
Aerospace.....	799	809	871	1,093	1,228	1,201	1,186	1,273	1,318	1,417	1,532	1,513	1,646	1,686	1,687
Chemical.....	2,519	2,430	2,498	2,801	3,201	3,185	2,969	2,887	2,864	2,885	3,014	3,330	3,495	3,713	3,764
Civil.....	5,230	5,387	5,587	5,835	6,544	6,284	5,659	5,265	5,103	4,962	5,425	6,145	6,593	7,160	7,399
Electrical.....	7,620	8,443	10,117	11,148	12,814	12,451	11,276	11,452	12,755	13,925	15,305	18,296	20,566	23,369	23,647
Industrial.....	1,710	1,947	2,619	2,941	3,806	3,477	3,352	3,326	3,341	3,352	3,730	4,545	5,333	5,715	5,418
Materials.....	1,248	1,369	1,693	1,948	2,176	2,173	1,927	1,920	1,967	2,010	2,043	2,112	2,336	2,510	2,593
Mechanical.....	4,598	4,787	5,511	5,815	6,674	6,278	5,458	5,483	5,694	5,650	6,196	7,138	7,669	8,535	8,802
Other.....	3,773	3,659	4,493	5,119	4,911	4,246	3,657	3,450	3,464	3,588	4,258	4,322	4,884	5,618	6,511
Science.....	45,750	51,109	58,758	65,275	71,833	71,024	67,401	67,928	67,375	69,278	73,951	80,956	88,258	94,579	94,547
Natural sciences.....	31,664	36,297	42,661	48,327	54,123	53,953	50,610	50,820	50,643	52,160	55,987	62,370	68,719	73,660	73,144
Agricultural sciences.....	2,860	2,750	3,004	3,039	3,300	3,222	3,201	3,018	2,789	2,654	2,538	2,411	2,513	2,613	2,578
Biological sciences.....	5,883	6,748	8,549	10,654	12,364	12,775	12,068	11,372	11,064	11,336	11,189	11,761	12,434	13,826	14,770
Earth, atmospheric, and ocean sciences.....	1,846	1,865	2,190	2,575	2,897	3,008	2,947	2,766	2,515	2,499	2,520	2,692	2,782	2,768	2,763
Atmospheric sciences.....	191	209	239	249	310	297	266	283	291	255	274	304	285	306	268
Earth sciences.....	1,010	1,025	1,213	1,404	1,534	1,671	1,543	1,457	1,293	1,244	1,224	1,302	1,355	1,379	1,433

**S&E graduate enrollment, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, citizenship, and race/ethnicity	1983	1985	1987	1989	1991	1993	1995	1996	1997	1998	1999	2000	2001	2002	2003
Oceanography .....	402	345	404	563	610	590	621	557	507	533	516	526	514	466	489
Other geosciences .....	243	286	334	359	443	450	517	469	424	467	506	560	628	617	573
Mathematics/computer sciences.....	10,406	12,842	14,906	16,377	18,258	18,043	16,604	17,608	18,461	19,843	23,082	28,319	32,538	34,090	31,464
Computer sciences .....	5,453	7,497	8,777	9,694	11,624	11,909	10,795	11,847	12,917	14,422	17,155	22,262	26,054	27,066	24,143
Mathematics/statistics.....	4,953	5,345	6,129	6,683	6,634	6,134	5,809	5,761	5,544	5,421	5,927	6,057	6,484	7,024	7,321
Medical/other life sciences.....	3,044	3,150	3,384	3,909	4,579	4,653	4,381	4,878	4,919	5,090	5,526	5,532	6,249	7,273	7,497
Medical sciences .....	2,092	2,274	2,487	2,863	3,397	3,397	3,137	3,512	3,455	3,597	3,833	3,725	4,228	5,068	5,176
Other life sciences .....	952	876	897	1,046	1,182	1,256	1,244	1,366	1,464	1,493	1,693	1,807	2,021	2,205	2,321
Physical sciences.....	7,625	8,942	10,628	11,773	12,725	12,252	11,409	11,178	10,895	10,738	11,132	11,655	12,203	13,090	14,072
Astronomy .....	108	154	182	164	217	217	232	216	185	213	239	271	283	303	333
Chemistry .....	3,810	4,371	5,299	6,107	6,898	6,675	6,414	6,275	6,112	6,025	6,085	6,222	6,569	7,253	7,839
Physics .....	3,686	4,394	5,115	5,469	5,570	5,284	4,680	4,630	4,539	4,430	4,729	5,084	5,257	5,442	5,798
Other physical sciences .....	21	23	32	33	40	76	83	57	59	70	79	78	94	92	102
Social/behavioral sciences .....	14,086	14,812	16,097	16,948	17,710	17,071	16,791	17,108	16,732	17,118	17,964	18,586	19,539	20,919	21,403
Psychology .....	1,433	1,492	1,539	1,631	1,988	1,881	2,087	1,973	2,008	2,186	2,239	2,263	2,521	2,857	3,180
Social sciences .....	12,653	13,320	14,558	15,317	15,722	15,190	14,704	15,135	14,724	14,932	15,725	16,323	17,018	18,062	18,223
Anthropology .....	481	541	662	763	824	800	694	690	702	739	823	829	769	847	849
Economics .....	5,022	5,464	5,708	6,233	6,482	6,425	6,387	6,421	6,303	6,144	6,458	6,821	7,336	7,666	7,659
History of science .....	41	55	43	40	51	55	46	50	67	67	59	69	70	68	61
Linguistics .....	939	1,072	1,103	1,177	1,259	1,061	997	1,002	982	1,023	962	960	962	982	963
Political science/public administration .....	3,341	3,175	3,717	3,546	3,608	3,531	3,378	3,543	3,426	3,552	3,919	4,159	4,223	4,654	4,877
Sociology.....	1,482	1,576	1,701	1,804	1,722	1,551	1,296	1,218	1,254	1,219	1,258	1,332	1,392	1,390	1,415
Other social sciences.....	1,347	1,437	1,624	1,754	1,776	1,767	1,906	2,211	1,990	2,188	2,246	2,153	2,266	2,455	2,399

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

Appendix table 2-16  
**First-time full-time S&E graduate students, by field and citizenship: 2000–03**

Field	All S&E graduate enrollment				U.S. citizen/permanent resident				Temporary resident			
	2000	2001	2002	2003	2000	2001	2002	2003	2000	2001	2002	2003
All S&E fields .....	94,340	98,112	104,179	107,842	61,036	62,421	70,373	76,716	33,304	35,691	33,806	31,126
Engineering .....	22,191	23,306	24,596	24,441	8,618	8,689	10,766	12,319	13,573	14,617	13,830	12,122
Science .....	72,149	74,806	79,583	83,401	52,418	53,732	59,607	64,397	19,731	21,074	19,976	19,004
Agricultural sciences .....	2,335	2,338	2,320	2,424	1,916	1,845	1,856	1,974	419	493	464	450
Biological sciences .....	10,955	11,608	12,133	12,698	8,355	8,772	9,269	9,763	2,600	2,836	2,864	2,935
Computer sciences .....	8,431	9,077	9,037	8,148	2,414	2,621	3,534	3,916	6,017	6,456	5,503	4,232
Earth, atmospheric and ocean sciences...	2,649	2,794	3,085	3,104	2,082	2,210	2,550	2,580	567	584	535	524
Mathematics/statistics .....	3,419	3,686	3,918	4,185	1,849	2,030	2,311	2,537	1,570	1,656	1,607	1,648
Medical/other life sciences .....	16,008	15,701	17,357	18,498	14,720	14,189	15,721	16,946	1,288	1,512	1,636	1,552
Physical sciences .....	5,829	6,011	6,280	6,841	3,323	3,325	3,775	4,100	2,506	2,686	2,505	2,741
Psychology .....	7,545	7,691	8,420	8,922	7,060	7,167	7,902	8,351	485	524	518	571
Social sciences.....	14,978	15,900	17,033	18,581	10,699	11,573	12,689	14,230	4,279	4,327	4,344	4,351

NOTE: Data on first-time full-time enrollment by race/ethnicity and citizenship not collected before 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

*Science and Engineering Indicators 2006*

Appendix table 2-17  
**Foreign graduate student enrollment in U.S. universities, by selected place of origin:  
 Selected years, 1987–2004**

Place of origin	Students
1987	
All locations .....	156,366
Taiwan .....	20,875
China .....	20,388
India .....	15,547
South Korea .....	14,939
Canada .....	5,915
Japan .....	4,260
Malaysia .....	4,149
Thailand .....	3,620
Indonesia .....	2,586
Mexico .....	1,882
Other locations .....	62,206
1993	
All locations .....	201,038
China .....	36,370
India .....	27,533
Taiwan .....	24,623
South Korea .....	15,785
Canada .....	8,455
Japan .....	7,755
Thailand .....	5,621
Indonesia .....	3,399
Mexico .....	2,855
Malaysia .....	2,078
Other locations .....	66,564
1999	
All locations .....	225,383
China .....	44,127
India .....	30,533
South Korea .....	20,085
Taiwan .....	14,891
Canada .....	10,133
Japan .....	8,897
Thailand .....	6,872
Mexico .....	4,026
Indonesia .....	2,708
Malaysia .....	1,984
Other locations .....	81,127
2004	
All locations .....	279,076
India .....	63,013
China .....	50,796
South Korea .....	24,757
Taiwan .....	15,015
Canada .....	12,129
Japan .....	8,681
Turkey .....	6,912
Thailand .....	5,708
Mexico .....	4,225
Germany .....	3,915
Other locations .....	83,925

NOTES: Data for temporary residents only. Student counts other than total foreign student enrollment imputed from data reported by institutions. Large discrepancy between academic-level values reported by country and those provided by U.S. institutions for foreign students because of differential response rates to nationality question and academic-level question.

SOURCES: Institute of International Education, Annual Census of Foreign Students, special tabulations (2001); and *Open Doors 2004: Report on International Educational Exchange* (2004).

## Full-time S&amp;E graduate students, by source and mechanism of primary support: 1983–2003

Source	All mechanisms		Research assistantship		Fellowship		Traineeship		Teaching assistantship		Other		Self-support <sup>a</sup>	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>All sources</b>														
1983 .....	252,017	100.0	54,904	21.8	21,342	8.5	13,512	5.4	60,071	23.8	20,955	8.3	81,233	32.2
1984 .....	253,922	100.0	57,735	22.7	21,624	8.5	13,465	5.3	61,256	24.1	20,692	8.1	79,150	31.2
1985 .....	257,287	100.0	60,995	23.7	22,540	8.8	13,665	5.3	61,822	24.0	20,635	8.0	77,630	30.2
1986 .....	266,168	100.0	66,010	24.8	22,954	8.6	13,526	5.1	62,552	23.5	22,246	8.4	78,880	29.6
1987 .....	271,056	100.0	70,214	25.9	21,953	8.1	14,096	5.2	62,847	23.2	22,166	8.2	79,780	29.4
1988 .....	275,127	100.0	74,588	27.1	22,353	8.1	14,397	5.2	63,053	22.9	21,576	7.8	79,160	28.8
1989 .....	282,648	100.0	79,045	28.0	23,450	8.3	14,524	5.1	64,296	22.7	21,082	7.5	80,251	28.4
1990 .....	292,782	100.0	80,746	27.6	25,254	8.6	15,198	5.2	64,950	22.2	22,250	7.6	84,384	28.8
1991 .....	307,010	100.0	85,175	27.7	26,695	8.7	15,403	5.0	65,214	21.2	22,940	7.5	91,583	29.8
1992 .....	322,555	100.0	88,030	27.3	28,627	8.9	15,361	4.8	65,702	20.4	23,536	7.3	101,299	31.4
1993 .....	329,644	100.0	90,154	27.3	29,132	8.8	15,445	4.7	67,290	20.4	21,347	6.5	106,276	32.2
1994 .....	332,088	100.0	92,008	27.7	28,892	8.7	15,681	4.7	66,844	20.1	21,628	6.5	107,035	32.2
1995 .....	329,283	100.0	89,946	27.3	28,887	8.8	15,943	4.8	65,976	20.0	21,844	6.6	106,687	32.4
1996 .....	328,536	100.0	87,694	26.7	28,862	8.8	15,481	4.7	65,756	20.0	21,268	6.5	109,475	33.3
1997 .....	327,289	100.0	88,001	26.9	28,956	8.8	14,488	4.4	65,425	20.0	21,678	6.6	108,741	33.2
1998 .....	327,389	100.0	88,097	26.9	29,106	8.9	14,946	4.6	65,173	19.9	21,843	6.7	108,224	33.1
1999 .....	334,423	100.0	91,279	27.3	30,112	9.0	14,707	4.4	66,294	19.8	22,615	6.8	109,416	32.7
2000 .....	341,283	100.0	94,323	27.6	31,330	9.2	14,171	4.2	66,423	19.5	22,604	6.6	112,432	32.9
2001 .....	354,522	100.0	99,923	28.2	32,270	9.1	14,086	4.0	68,267	19.3	23,340	6.6	116,636	32.9
2002 .....	378,988	100.0	108,198	28.5	34,851	9.2	14,925	3.9	70,723	18.7	23,646	6.2	126,645	33.4
2003 .....	398,010	100.0	114,337	28.7	34,778	8.7	15,095	3.8	73,065	18.4	25,250	6.3	135,485	34.0
<b>Federal</b>														
1983 .....	47,752	100.0	29,152	61.0	4,108	8.6	9,112	19.1	498	1.0	4,882	10.2	NA	NA
1984 .....	47,784	100.0	29,463	61.7	4,116	8.6	8,970	18.8	400	0.8	4,835	10.1	NA	NA
1985 .....	49,051	100.0	30,433	62.0	4,416	9.0	8,954	18.3	549	1.1	4,699	9.6	NA	NA
1986 .....	51,361	100.0	32,739	63.7	4,596	8.9	8,688	16.9	495	1.0	4,843	9.4	NA	NA
1987 .....	53,538	100.0	34,996	65.4	4,445	8.3	8,922	16.7	444	0.8	4,731	8.8	NA	NA
1988 .....	55,489	100.0	36,752	66.2	4,566	8.2	8,664	15.6	504	0.9	5,003	9.0	NA	NA
1989 .....	57,433	100.0	38,555	67.1	5,166	9.0	8,682	15.1	490	0.9	4,540	7.9	NA	NA
1990 .....	59,258	100.0	38,504	65.0	6,314	10.7	9,228	15.6	609	1.0	4,603	7.8	NA	NA
1991 .....	63,000	100.0	40,790	64.7	7,445	11.8	9,616	15.3	476	0.8	4,673	7.4	NA	NA
1992 .....	65,607	100.0	42,586	64.9	7,757	11.8	10,040	15.3	643	1.0	4,581	7.0	NA	NA
1993 .....	67,673	100.0	44,502	65.8	7,510	11.1	10,174	15.0	846	1.3	4,641	6.9	NA	NA
1994 .....	68,550	100.0	45,621	66.6	6,939	10.1	10,407	15.2	780	1.1	4,803	7.0	NA	NA
1995 .....	67,294	100.0	44,597	66.3	6,914	10.3	10,234	15.2	739	1.1	4,810	7.1	NA	NA
1996 .....	65,240	100.0	43,370	66.5	7,044	10.8	9,869	15.1	843	1.3	4,114	6.3	NA	NA
1997 .....	64,522	100.0	43,328	67.2	7,074	11.0	9,291	14.4	908	1.4	3,921	6.1	NA	NA
1998 .....	63,759	100.0	41,826	65.6	7,033	11.0	9,658	15.1	1,120	1.8	4,122	6.5	NA	NA
1999 .....	65,796	100.0	43,061	65.4	7,345	11.2	9,725	14.8	997	1.5	4,668	7.1	NA	NA
2000 .....	67,588	100.0	44,620	66.0	7,475	11.1	9,544	14.1	1,371	2.0	4,578	6.8	NA	NA
2001 .....	68,873	100.0	46,205	67.1	7,406	10.8	9,497	13.8	1,077	1.6	4,688	6.8	NA	NA
2002 .....	75,573	100.0	51,629	68.3	7,899	10.5	9,996	13.2	1,227	1.6	4,822	6.4	NA	NA
2003 .....	81,967	100.0	57,351	70.0	7,630	9.3	10,098	12.3	1,540	1.9	5,348	6.5	NA	NA

## Full-time S&amp;E graduate students, by source and mechanism of primary support: 1983–2003

Source	All mechanisms		Research assistantship		Fellowship		Traineeship		Teaching assistantship		Other		Self-support <sup>a</sup>	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Nonfederal														
1983 .....	123,032	100.0	25,752	20.9	17,234	14.0	4,400	3.6	59,573	48.4	16,073	13.1	NA	NA
1984 .....	126,988	100.0	28,272	22.3	17,508	13.8	4,495	3.5	60,856	47.9	15,857	12.5	NA	NA
1985 .....	130,606	100.0	30,562	23.4	18,124	13.9	4,711	3.6	61,273	46.9	15,936	12.2	NA	NA
1986 .....	135,927	100.0	33,271	24.5	18,358	13.5	4,838	3.6	62,057	45.7	17,403	12.8	NA	NA
1987 .....	137,738	100.0	35,218	25.6	17,508	12.7	5,174	3.8	62,403	45.3	17,435	12.7	NA	NA
1988 .....	140,478	100.0	37,836	26.9	17,787	12.7	5,733	4.1	62,549	44.5	16,573	11.8	NA	NA
1989 .....	144,964	100.0	40,490	27.9	18,284	12.6	5,842	4.0	63,806	44.0	16,542	11.4	NA	NA
1990 .....	149,140	100.0	42,242	28.3	18,940	12.7	5,970	4.0	64,341	43.1	17,647	11.8	NA	NA
1991 .....	152,427	100.0	44,385	29.1	19,250	12.6	5,787	3.8	64,738	42.5	18,267	12.0	NA	NA
1992 .....	155,649	100.0	45,444	29.2	20,870	13.4	5,321	3.4	65,059	41.8	18,955	12.2	NA	NA
1993 .....	155,695	100.0	45,652	29.3	21,622	13.9	5,271	3.4	66,444	42.7	16,706	10.7	NA	NA
1994 .....	156,503	100.0	46,387	29.6	21,953	14.0	5,274	3.4	66,064	42.2	16,825	10.8	NA	NA
1995 .....	155,302	100.0	45,349	29.2	21,973	14.1	5,709	3.7	65,237	42.0	17,034	11.0	NA	NA
1996 .....	153,821	100.0	44,324	28.8	21,818	14.2	5,612	3.6	64,913	42.2	17,154	11.2	NA	NA
1997 .....	154,026	100.0	44,673	29.0	21,882	14.2	5,197	3.4	64,517	41.9	17,757	11.5	NA	NA
1998 .....	155,406	100.0	46,271	29.8	22,073	14.2	5,288	3.4	64,053	41.2	17,721	11.4	NA	NA
1999 .....	159,211	100.0	48,218	30.3	22,767	14.3	4,982	3.1	65,297	41.0	17,947	11.3	NA	NA
2000 .....	161,263	100.0	49,703	30.8	23,855	14.8	4,627	2.9	65,052	40.3	18,026	11.2	NA	NA
2001 .....	169,013	100.0	53,718	31.8	24,864	14.7	4,589	2.7	67,190	39.8	18,652	11.0	NA	NA
2002 .....	176,770	100.0	56,569	32.0	26,952	15.2	4,929	2.8	69,496	39.3	18,824	10.6	NA	NA
2003 .....	180,558	100.0	56,986	31.6	27,148	15.0	4,997	2.8	71,525	39.6	19,902	11.0	NA	NA

NA = not available

<sup>a</sup>Includes any loans (including federal) and support from personal or family financial contributions.

NOTES: S&amp;E includes health fields (i.e., medical sciences and other life sciences). These fields are reported separately in National Science Foundation, Division of Science Resources Statistics (NSF/SRS), Graduate Students and Postdoctorates in Science and Engineering (annual series).

SOURCE: NSF/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

Appendix table 2-19  
Full-time S&E graduate students, by field and mechanism of primary support: 2003

Field	All mechanisms		Research assistantship		Fellowship		Traineeship		Teaching assistantship		Other		Self-support <sup>a</sup>	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
S&E .....	398,010	100.0	114,337	28.7	34,778	8.7	15,095	3.8	73,065	18.4	25,250	6.3	135,485	34.0
Engineering .....	90,379	100.0	37,438	41.4	7,291	8.1	1,056	1.2	12,561	13.9	5,412	6.0	26,621	29.5
Aerospace .....	3,243	100.0	1,564	48.2	274	8.4	36	1.1	411	12.7	229	7.1	729	22.5
Chemical .....	6,414	100.0	3,603	56.2	837	13.0	73	1.1	851	13.3	207	3.2	843	13.1
Civil .....	13,710	100.0	5,033	36.7	1,115	8.1	196	1.4	2,011	14.7	799	5.8	4,556	33.2
Electrical .....	28,952	100.0	10,809	37.3	1,536	5.3	128	0.4	4,227	14.6	1,678	5.8	10,574	36.5
Industrial .....	7,085	100.0	1,841	26.0	461	6.5	42	0.6	959	13.5	738	10.4	3,044	43.0
Materials .....	4,386	100.0	2,847	64.9	470	10.7	33	0.8	419	9.6	104	2.4	513	11.7
Mechanical .....	13,375	100.0	6,059	45.3	993	7.4	117	0.9	2,316	17.3	698	5.2	3,192	23.9
Other .....	13,214	100.0	5,682	43.0	1,605	12.1	431	3.3	1,367	10.3	959	7.3	3,170	24.0
Science .....	307,631	100.0	76,899	25.0	27,487	8.9	14,039	4.6	60,504	19.7	19,838	6.4	108,864	35.4
Natural sciences .....	210,580	100.0	62,950	29.9	16,210	7.7	11,584	5.5	41,486	19.7	13,153	6.2	65,197	31.0
Agricultural sciences .....	10,003	100.0	5,806	58.0	568	5.7	52	0.5	1,186	11.9	426	4.3	1,965	19.6
Biological sciences .....	54,346	100.0	22,697	41.8	6,504	12.0	5,620	10.3	9,134	16.8	2,568	4.7	7,823	14.4
Earth, atmospheric, and ocean sciences .....	11,511	100.0	4,599	40.0	1,175	10.2	115	1.0	2,810	24.4	546	4.7	2,266	19.7
Atmospheric sciences .....	1,019	100.0	643	63.1	51	5.0	3	0.3	141	13.8	90	8.8	91	8.9
Earth sciences .....	5,574	100.0	1,994	35.8	610	10.9	34	0.6	1,946	34.9	202	3.6	788	14.1
Oceanography .....	2,259	100.0	1,207	53.4	269	11.9	30	1.3	267	11.8	52	2.3	434	19.2
Other geosciences .....	2,659	100.0	755	28.4	245	9.2	48	1.8	456	17.1	202	7.6	953	35.8
Mathematics/computer sciences .....	45,477	100.0	9,315	20.5	2,773	6.1	455	1.0	12,954	28.5	2,834	6.2	17,146	37.7
Computer sciences .....	30,850	100.0	7,505	24.3	1,391	4.5	332	1.1	5,024	16.3	2,259	7.3	14,339	46.5
Mathematics/statistics .....	14,627	100.0	1,810	12.4	1,382	9.4	123	0.8	7,930	54.2	575	3.9	2,807	19.2
Medical/other life sciences .....	58,802	100.0	7,039	12.0	2,660	4.5	4,978	8.5	3,640	6.2	6,252	10.6	34,233	58.2
Medical sciences .....	21,613	100.0	4,384	20.3	1,558	7.2	1,915	8.9	1,525	7.1	1,736	8.0	10,495	48.6
Other life sciences .....	37,189	100.0	2,655	7.1	1,102	3.0	3,063	8.2	2,115	5.7	4,516	12.1	23,738	63.8
Physical sciences .....	30,441	100.0	13,494	44.3	2,530	8.3	364	1.2	11,762	38.6	527	1.7	1,764	5.8
Astronomy .....	1,023	100.0	546	53.4	181	17.7	14	1.4	225	22.0	25	2.4	32	3.1
Chemistry .....	17,694	100.0	7,485	42.3	1,434	8.1	247	1.4	7,373	41.7	263	1.5	892	5.0
Physics .....	11,430	100.0	5,383	47.1	896	7.8	103	0.9	4,135	36.2	222	1.9	691	6.0
Other physical sciences .....	294	100.0	80	27.2	19	6.5	0	0.0	29	9.9	17	5.8	149	50.7
Social/behavioral sciences .....	97,051	100.0	13,949	14.4	11,277	11.6	2,455	2.5	19,018	19.6	6,685	6.9	43,667	45.0
Psychology .....	35,777	100.0	5,589	15.6	2,378	6.6	1,167	3.3	6,070	17.0	2,954	8.3	17,619	49.2
Social sciences .....	61,274	100.0	8,360	13.6	8,899	14.5	1,288	2.1	12,948	21.1	3,731	6.1	26,048	42.5
Anthropology .....	5,945	100.0	517	8.7	1,407	23.7	57	1.0	1,581	26.6	363	6.1	2,020	34.0
Economics .....	12,052	100.0	2,316	19.2	1,757	14.6	186	1.5	3,329	27.6	713	5.9	3,751	31.1
History of science .....	432	100.0	21	4.9	134	31.0	13	3.0	119	27.5	23	5.3	122	28.2
Linguistics .....	2,389	100.0	232	9.7	417	17.5	25	1.0	667	27.9	150	6.3	898	37.6
Political science/public administration .....	19,969	100.0	1,963	9.8	3,134	15.7	626	3.1	2,831	14.2	1,201	6.0	10,214	51.1
Sociology .....	7,242	100.0	1,074	14.8	1,088	15.0	174	2.4	2,415	33.3	396	5.5	2,095	28.9
Other social sciences .....	13,245	100.0	2,237	16.9	962	7.3	207	1.6	2,006	15.1	885	6.7	6,948	52.5

<sup>a</sup>Includes any loans (including federal) and support from personal or family financial contributions.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Appendix table 2-20

**Full-time S&E graduate students primarily supported by federal government, by field and mechanism of primary support: 2003**

(Percent)

Field	All mechanisms	Research assistantship	Fellowship	Traineeship	Teaching assistantship	Other
S&E .....	20.6	50.2	21.9	66.9	2.1	3.3
Engineering .....	23.8	47.9	22.5	40.8	1.9	4.1
Aerospace .....	36.9	62.2	24.1	16.7	1.5	15.2
Chemical .....	32.0	48.1	28.8	64.4	2.4	1.4
Civil .....	15.9	35.4	19.0	16.3	1.5	2.4
Electrical .....	21.4	51.7	18.2	18.8	0.7	2.3
Industrial .....	14.0	36.4	26.0	59.5	1.3	4.3
Materials .....	38.4	53.5	26.2	30.3	2.9	2.8
Mechanical .....	25.5	48.2	28.4	35.9	1.6	3.2
Other .....	28.9	48.1	19.9	56.8	6.1	10.5
Science .....	18.1	47.5	21.2	68.8	2.4	3.2
Natural sciences .....	23.8	53.3	27.3	76.1	3.0	4.2
Agricultural sciences .....	25.0	38.6	20.2	19.2	4.0	3.8
Biological sciences .....	37.2	57.3	28.7	73.8	4.5	7.3
Earth, atmospheric, and ocean sciences .....	28.7	57.7	27.6	56.5	3.9	5.4
Atmospheric sciences .....	59.1	75.6	19.6	66.7	14.9	45.9
Earth sciences .....	25.8	58.7	27.0	44.1	3.1	2.7
Oceanography .....	36.1	57.5	27.5	63.3	5.2	3.1
Other geosciences .....	17.0	40.4	30.6	60.4	3.3	2.3
Mathematics/computer sciences .....	15.5	57.6	28.7	26.8	1.1	3.1
Computer sciences .....	17.4	58.6	28.2	19.9	0.9	2.8
Mathematics/statistics .....	11.5	53.3	29.2	45.5	1.2	4.8
Medical/other life sciences .....	16.3	42.7	23.8	84.1	5.2	3.9
Medical sciences .....	22.8	51.6	28.0	80.4	5.6	4.9
Other life sciences .....	12.5	27.9	17.7	86.4	5.0	3.4
Physical sciences .....	34.7	69.7	28.4	73.1	0.9	2.6
Astronomy .....	43.3	69.8	26.5	78.6	0.0	5.3
Chemistry .....	33.4	69.2	28.2	89.5	0.9	2.7
Physics .....	36.7	71.0	29.7	33.0	1.1	2.8
Other physical sciences .....	8.8	31.3	0.0	0.0	3.4	0.0
Social/behavioral sciences .....	7.5	26.8	13.6	35.4	1.6	1.6
Psychology .....	10.0	35.7	26.5	53.6	1.6	1.1
Social sciences .....	6.0	20.9	10.2	18.9	1.5	1.9
Anthropology .....	7.0	19.9	15.9	36.8	1.6	1.8
Economics .....	7.3	26.9	7.6	8.6	1.1	1.6
History of science .....	4.6	9.5	10.4	7.7	0.0	2.1
Linguistics .....	6.2	25.0	11.0	32.0	2.1	2.0
Political science/public administration .....	3.6	9.5	7.3	5.1	2.1	1.8
Sociology .....	7.0	23.1	10.2	53.4	0.9	1.5
Other social sciences .....	7.4	23.5	15.6	34.8	1.9	2.4

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Appendix table 2-21

**Full-time S&E graduate students primarily supported by federal government, by agency: 1983–2003**

Year	All federal		National Institutes of Health		Other Department of Health and Human Services		National Science Foundation		Department of Defense		Department of Agriculture		National Aeronautics and Space Administration		Department of Energy		Other agencies	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1983.....	47,752	100.0	10,810	22.6	4,179	8.8	9,524	19.9	6,969	14.6	NA	NA	NA	NA	NA	NA	16,270	34.1
1984.....	47,784	100.0	10,983	23.0	4,124	8.6	9,848	20.6	7,125	14.9	NA	NA	NA	NA	NA	NA	15,704	32.9
1985.....	49,051	100.0	11,112	22.7	4,740	9.7	10,180	20.8	7,326	14.9	2,171	4.4	NA	NA	NA	NA	13,522	27.6
1986.....	51,361	100.0	11,877	23.1	4,500	8.8	10,826	21.1	7,940	15.5	2,328	4.5	NA	NA	NA	NA	13,890	27.0
1987.....	53,538	100.0	12,944	24.2	4,247	7.9	11,247	21.0	8,795	16.4	2,684	5.0	NA	NA	NA	NA	13,621	25.4
1988.....	55,489	100.0	13,715	24.7	4,186	7.5	11,634	21.0	9,546	17.2	2,591	4.7	NA	NA	NA	NA	13,817	24.9
1989.....	57,433	100.0	14,357	25.0	4,335	7.5	11,900	20.7	9,140	15.9	2,728	4.7	NA	NA	NA	NA	14,973	26.1
1990.....	59,258	100.0	14,996	25.3	4,512	7.6	12,025	20.3	8,868	15.0	2,722	4.6	NA	NA	NA	NA	16,135	27.2
1991.....	63,000	100.0	16,018	25.4	4,461	7.1	12,666	20.1	9,128	14.5	3,075	4.9	NA	NA	NA	NA	17,652	28.0
1992.....	65,607	100.0	17,091	26.1	4,321	6.6	13,366	20.4	9,247	14.1	3,216	4.9	NA	NA	NA	NA	18,366	28.0
1993.....	67,673	100.0	18,135	26.8	3,888	5.7	13,530	20.0	9,750	14.4	3,324	4.9	NA	NA	NA	NA	19,046	28.1
1994.....	68,550	100.0	18,292	26.7	4,374	6.4	13,990	20.4	9,449	13.8	3,422	5.0	NA	NA	NA	NA	19,023	27.8
1995.....	67,294	100.0	18,109	26.9	4,666	6.9	13,661	20.3	9,339	13.9	3,254	4.8	NA	NA	NA	NA	18,265	27.1
1996.....	65,240	100.0	17,929	27.5	4,432	6.8	13,412	20.6	8,802	13.5	3,004	4.6	2,309	3.5	NA	NA	15,352	23.5
1997.....	64,522	100.0	18,087	28.0	4,443	6.9	13,362	20.7	9,021	14.0	2,646	4.1	2,586	4.0	NA	NA	14,377	22.3
1998.....	63,759	100.0	18,215	28.6	4,489	7.0	13,459	21.1	8,259	13.0	2,485	3.9	2,646	4.2	NA	NA	14,206	22.3
1999.....	65,796	100.0	19,019	28.9	4,423	6.7	13,835	21.0	8,026	12.2	2,634	4.0	2,579	3.9	2,749	4.2	12,531	19.0
2000.....	67,588	100.0	19,472	28.8	4,018	5.9	14,599	21.6	8,141	12.0	2,630	3.9	2,780	4.1	2,995	4.4	12,953	19.2
2001.....	68,873	100.0	19,876	28.9	4,461	6.5	15,429	22.4	7,960	11.6	2,735	4.0	2,819	4.1	3,116	4.5	12,477	18.1
2002.....	75,573	100.0	22,101	29.2	4,873	6.4	17,134	22.7	7,977	10.6	3,100	4.1	3,079	4.1	3,545	4.7	13,764	18.2
2003.....	81,967	100.0	24,283	29.6	5,016	6.1	19,315	23.6	9,222	11.3	3,502	4.3	3,224	3.9	4,011	4.9	13,394	16.3

NA = not available

NOTES: Detail may not add to total because of rounding. Data not reported until first year given here.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

Appendix table 2-22

**Primary mechanisms of support for S&E doctorate recipients, by citizenship, sex, and race/ethnicity: 2003**

Citizenship, sex, and race/ethnicity	All mechanisms		Research assistantships		Fellowships		Traineeships		Teaching assistantships		Personal <sup>a</sup>		Other <sup>b</sup>		Unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All doctorate recipients .....	26,891	100.0	8,394	31.2	5,771	21.5	544	2.0	3,895	14.5	4,208	15.6	1,339	5.0	2,740	10.2
Non-U.S. citizen .....	9,871	100.0	4,541	46.0	1,647	16.7	57	0.6	1,585	16.1	698	7.1	722	7.3	621	6.3
Temporary resident .....	8,714	100.0	4,096	47.0	1,426	16.4	38	0.4	1,393	16.0	536	6.2	671	7.7	554	6.4
Permanent resident .....	1,157	100.0	445	38.5	221	19.1	19	1.6	192	16.6	162	14.0	51	4.4	67	5.8
U.S. citizen <sup>c</sup> .....	15,737	100.0	3,832	24.4	4,107	26.1	485	3.1	2,292	14.6	3,492	22.2	616	3.9	913	5.8
Male .....	8,605	100.0	2,480	28.8	2,165	25.2	205	2.4	1,339	15.6	1,563	18.2	381	4.4	472	5.5
Female .....	7,131	100.0	1,352	19.0	1,941	27.2	280	3.9	953	13.4	1,929	27.1	235	3.3	441	6.2
White .....	12,510	100.0	3,197	25.6	3,008	24.0	389	3.1	1,942	15.5	2,857	22.8	505	4.0	612	4.9
Asian .....	1,057	100.0	293	27.7	364	34.4	43	4.1	128	12.1	147	13.9	35	3.3	47	4.4
Underrepresented minority .....	1,726	100.0	253	14.7	659	38.2	43	2.5	172	10.0	401	23.2	66	3.8	132	7.6
Other/unknown race/ethnicity .....	444	100.0	89	20.0	76	17.1	10	2.3	50	11.3	87	19.6	10	2.3	122	27.5
Unknown citizenship .....	1,283	100.0	21	1.6	17	1.3	2	0.2	18	1.4	18	1.4	1	0.1	1,206	94.0

<sup>a</sup>Personal savings, other personal earnings in graduate school, other family earnings or savings, and loans.

<sup>b</sup>Employer reimbursement or assistance, foreign support, and other sources.

<sup>c</sup>Includes naturalized citizens.

NOTES: S&E includes health fields (i.e., medical and other life sciences). U.S. citizen total includes unknown sex. Underrepresented minority includes blacks, Hispanics, American Indians/Alaska Natives, Native Hawaiians/other Pacific Islanders, and multiple race/ethnicity. Fellowships include scholarships and dissertation grants. Traineeships include internship and residency.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, special tabulations.

*Science and Engineering Indicators 2006*

Appendix table 2-23  
**Amount of undergraduate and graduate debt of S&E doctorate recipients, by field: 2003**  
 (Percent)

Field	Doctorates	Debt								
		None	≤\$5,000	\$5,001– \$10,000	\$10,001– \$15,000	\$15,001– \$20,000	\$20,001– \$25,000	\$25,001– \$30,000	\$30,001– \$35,000	≥\$35,001
<b>Undergraduate debt</b>										
All fields .....	36,438	74.1	5.3	4.9	4.6	3.8	2.6	1.8	1.3	1.6
S&E.....	24,341	72.8	5.5	5.1	4.9	4.1	2.7	1.9	1.3	1.7
Agricultural sciences.....	814	73.2	7.0	5.0	5.3	3.1	2.1	1.6	1.6	1.1
Biological sciences.....	5,261	67.6	5.7	6.2	6.0	5.6	3.4	2.1	1.5	2.0
Computer sciences.....	767	83.1	4.0	3.4	3.9	2.0	1.7	0.5	0.7	0.8
Earth, atmospheric, and ocean sciences.....	724	71.1	5.5	6.9	6.2	3.9	2.6	2.2	0.7	0.8
Engineering.....	4,828	80.7	4.7	3.4	2.8	2.7	2.2	1.3	0.9	1.4
Medical/other health sciences.....	1,476	77.2	5.6	3.6	3.5	2.4	1.9	2.3	1.5	2.0
Mathematics.....	911	76.8	5.7	5.1	3.8	4.2	1.8	1.0	0.4	1.2
Physical sciences.....	3,058	69.6	5.9	5.2	6.1	5.5	2.8	1.8	1.4	1.8
Psychology.....	2,775	67.8	5.4	6.4	5.8	4.8	3.8	2.5	2.0	1.6
Social sciences.....	3,727	71.8	5.7	5.5	5.1	3.7	2.7	2.4	1.3	1.9
Non-S&E.....	12,097	76.8	4.8	4.4	4.2	3.2	2.2	1.7	1.3	1.6
<b>Graduate debt</b>										
All fields .....	36,399	63.2	4.8	4.5	3.3	3.0	2.5	2.1	2.2	14.5
S&E.....	24,314	66.2	4.7	4.4	3.1	2.7	2.3	1.8	2.0	12.9
Agricultural sciences.....	814	60.0	5.9	4.4	5.3	2.5	2.5	2.0	2.5	15.1
Biological sciences.....	5,256	71.1	4.9	4.5	2.9	2.7	1.7	1.7	1.6	9.0
Computer sciences.....	767	76.9	3.8	3.9	1.8	1.7	1.6	1.0	1.0	8.2
Earth, atmospheric, and ocean sciences.....	722	70.2	6.0	4.0	4.0	3.1	3.2	1.5	0.8	7.2
Engineering.....	4,824	75.7	4.3	3.8	2.5	2.1	1.5	1.3	1.3	7.7
Medical/other health sciences.....	1,475	61.0	5.6	3.7	3.3	2.9	2.9	2.4	2.7	15.5
Mathematics.....	905	75.6	6.0	3.7	2.7	2.2	1.2	1.6	0.8	6.4
Physical sciences.....	3,054	73.2	4.7	4.9	3.0	2.5	1.9	0.9	1.6	7.3
Psychology.....	2,775	42.7	3.2	4.5	3.0	3.5	3.8	3.0	3.6	32.7
Social sciences.....	3,722	56.7	4.8	5.1	3.9	3.4	3.3	2.4	3.1	17.2
Non-S&E.....	12,085	57.2	5.1	4.6	3.8	3.6	3.0	2.7	2.4	17.6

NOTE: Total of 4,272 doctorate recipients did not report undergraduate debt; 4,311 did not report graduate debt.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, special tabulations.

## Earned associate's degrees, by field and sex: Selected years, 1983–2002

Field and sex	1983	1985	1987	1989	1991	1993	1995	1997	2000	2001	2002
<b>Both sexes</b>											
All fields .....	461,888	459,087	440,816	440,375	486,297	519,098	544,094	546,031	543,876	552,046	553,735
S&E .....	23,796	26,486	23,130	19,733	19,352	23,420	24,228	25,771	33,651	38,063	42,200
Engineering .....	3,273	3,923	4,589	2,735	2,513	2,526	2,285	1,888	1,730	1,791	1,647
Aerospace .....	52	18	20	6	14	8	2	1	1	0	0
Chemical .....	34	21	37	34	24	43	16	7	13	18	28
Civil .....	50	114	84	99	102	102	80	110	58	53	45
Electrical .....	287	1,077	1,770	527	377	400	257	179	239	224	70
Industrial .....	15	50	53	43	30	94	103	81	67	132	80
Materials .....	30	11	32	27	28	19	8	5	11	14	10
Mechanical .....	88	80	100	128	142	96	104	58	77	67	65
Other .....	2,717	2,552	2,493	1,871	1,796	1,764	1,715	1,447	1,264	1,283	1,349
Science .....	20,523	22,563	18,541	16,998	16,839	20,894	21,943	23,883	31,921	36,272	40,553
Natural sciences .....	15,720	18,001	13,647	12,558	12,752	15,062	15,866	17,202	24,454	28,717	32,443
Agricultural sciences .....	2,358	2,023	1,569	1,656	1,724	1,896	1,910	1,865	1,943	2,083	1,983
Biological sciences .....	990	1,233	995	999	1,142	1,499	1,901	2,181	1,468	1,519	1,519
Earth, atmospheric, and ocean sciences .....	250	63	40	28	28	168	186	191	174	181	58
Atmospheric sciences .....	126	1	0	0	0	89	107	95	92	103	0
Earth sciences .....	119	60	40	27	28	22	28	51	28	35	28
Oceanography .....	5	2	0	1	0	57	51	45	54	43	30
Mathematics/computer sciences .....	10,707	13,680	9,953	8,846	8,640	10,275	10,410	11,425	19,598	23,798	27,599
Computer sciences .....	9,918	12,890	9,286	8,192	7,970	9,532	9,627	10,632	18,928	23,106	26,916
Mathematics/statistics .....	789	790	667	654	670	743	783	793	670	692	683
Physical sciences .....	1,415	1,002	1,090	1,029	1,218	1,224	1,459	1,540	1,271	1,136	1,284
Astronomy .....	4	1	0	0	0	0	0	1	1	1	2
Chemistry .....	188	153	111	108	108	244	293	314	301	183	201
Physics .....	91	68	69	64	69	85	98	92	106	118	125
Other physical sciences .....	1,132	780	910	857	1,041	895	1,068	1,133	863	834	956
Social/behavioral sciences .....	4,803	4,562	4,894	4,440	4,087	5,832	6,077	6,681	7,467	7,555	8,110
Psychology .....	973	983	1,016	1,113	997	1,235	1,600	1,606	1,445	1,538	1,691
Social sciences .....	3,830	3,579	3,878	3,327	3,090	4,597	4,477	5,075	6,022	6,017	6,419
Anthropology .....	44	36	41	37	29	53	66	77	51	77	82
Area/ethnic studies .....	21	32	14	15	19	33	63	87	244	297	305
Economics .....	106	85	137	170	149	192	142	188	210	209	220
Linguistics .....	0	3	2	0	0	0	0	0	0	0	0
Political science/public administration .....	1,368	1,229	1,530	804	844	1,232	1,132	1,344	1,023	911	923
Sociology .....	288	356	226	257	238	276	364	504	365	370	415
Other social sciences .....	2,003	1,838	1,928	2,044	1,811	2,811	2,710	2,875	4,129	4,153	4,474
Non-S&E .....	438,092	432,601	417,686	420,642	466,945	495,678	519,866	520,260	510,225	513,983	511,535
Engineering technologies .....	51,317	53,667	49,815	48,342	45,106	40,946	39,190	35,221	35,544	35,413	31,557
<b>Male</b>											
All fields .....	208,830	204,325	192,227	187,125	200,043	213,263	219,704	212,698	216,156	220,011	215,129
S&E .....	13,145	14,695	13,152	10,607	10,360	12,103	12,461	12,636	17,186	20,115	23,419
Engineering .....	2,915	3,501	4,092	2,408	2,233	2,196	1,978	1,617	1,492	1,494	1,376
Aerospace .....	51	14	18	6	14	8	2	1	1	0	0

## Earned associate's degrees, by field and sex: Selected years, 1983–2002

Field and sex	1983	1985	1987	1989	1991	1993	1995	1997	2000	2001	2002
Chemical.....	24	16	17	20	15	18	13	4	10	16	26
Civil .....	47	88	71	85	85	83	57	82	38	34	28
Electrical.....	261	1,011	1,613	468	351	368	238	160	215	200	58
Industrial.....	11	43	49	40	26	81	87	75	52	115	74
Materials.....	28	11	27	26	25	17	6	4	10	11	9
Mechanical .....	86	75	91	119	130	87	98	54	69	60	56
Other .....	2,407	2,243	2,206	1,644	1,587	1,534	1,477	1,237	1,097	1,058	1,125
Science.....	10,230	11,194	9,060	8,199	8,127	9,907	10,483	11,019	15,694	18,621	22,043
Natural sciences .....	8,354	9,588	7,410	6,528	6,716	7,809	8,412	9,008	13,503	16,496	19,765
Agricultural sciences.....	1,382	1,201	1,002	965	1,119	1,280	1,300	1,196	1,159	1,302	1,225
Biological sciences .....	480	554	422	423	457	613	757	789	494	497	484
Earth, atmospheric, and ocean sciences.....	196	47	26	20	23	130	148	126	116	123	37
Atmospheric sciences.....	115	1	0	0	0	77	91	74	71	77	0
Earth sciences .....	79	44	26	19	23	17	21	30	12	25	17
Oceanography .....	2	2	0	1	0	36	36	22	33	21	20
Mathematics/computer sciences.....	5,395	7,128	5,297	4,563	4,438	5,123	5,434	6,164	11,134	13,990	17,345
Computer sciences.....	4,910	6,639	4,878	4,148	4,032	4,695	4,996	5,720	10,727	13,541	16,902
Mathematics/statistics.....	485	489	419	415	406	428	438	444	407	449	443
Physical sciences.....	901	658	663	557	679	663	773	733	600	584	674
Astronomy .....	4	1	0	0	0	0	0	1	1	1	1
Chemistry.....	131	93	64	65	77	130	139	155	126	99	108
Physics.....	77	64	62	53	55	63	87	74	76	93	89
Other physical sciences .....	689	500	537	439	547	470	547	503	397	391	476
Social and behavioral sciences.....	1,876	1,606	1,650	1,671	1,411	2,098	2,071	2,011	2,191	2,125	2,278
Psychology .....	338	312	294	283	257	282	446	376	326	355	367
Social sciences .....	1,538	1,294	1,356	1,388	1,154	1,816	1,625	1,635	1,865	1,770	1,911
Anthropology .....	22	9	12	8	9	17	28	26	21	30	28
Area/ethnic studies.....	9	8	6	8	6	10	17	31	53	43	61
Economics.....	70	69	79	99	85	120	83	104	116	114	90
Linguistics.....	0	2	1	0	0	0	0	0	0	0	0
Political science/public administration .....	432	330	396	312	290	516	365	335	250	204	225
Sociology.....	93	129	69	82	76	78	100	151	89	104	111
Other social sciences.....	912	747	793	879	688	1,075	1,032	988	1,336	1,275	1,396
Non-S&E .....	195,685	189,630	179,075	176,518	189,683	201,160	207,243	200,062	198,970	199,896	191,710
Engineering technologies .....	45,521	47,946	44,158	42,766	39,777	36,129	34,196	29,990	30,079	29,747	26,537
Female											
All fields .....	253,058	254,762	248,589	253,250	286,254	305,835	324,390	333,333	327,720	332,035	338,606
S&E.....	10,651	11,791	9,978	9,126	8,992	11,317	11,767	13,135	16,465	17,948	18,781
Engineering.....	358	422	497	327	280	330	307	271	238	297	271
Aerospace.....	1	4	2	0	0	0	0	0	0	0	0
Chemical .....	10	5	20	14	9	25	3	3	3	2	2
Civil .....	3	26	13	14	17	19	23	28	20	19	17
Electrical.....	26	66	157	59	26	32	19	19	24	24	12
Industrial.....	4	7	4	3	4	13	16	6	15	17	6

**Earned associate's degrees, by field and sex: Selected years, 1983–2002**

Field and sex	1983	1985	1987	1989	1991	1993	1995	1997	2000	2001	2002
Materials .....	2	0	5	1	3	2	2	1	1	3	1
Mechanical .....	2	5	9	9	12	9	6	4	8	7	9
Other .....	310	309	287	227	209	230	238	210	167	225	224
Science .....	10,293	11,369	9,481	8,799	8,712	10,987	11,460	12,864	16,227	17,651	18,510
Natural sciences .....	7,366	8,413	6,237	6,030	6,036	7,253	7,454	8,194	10,951	12,221	12,678
Agricultural sciences.....	976	822	567	691	605	616	610	669	784	781	758
Biological sciences .....	510	679	573	576	685	886	1,144	1,392	974	1,022	1,035
Earth, atmospheric, and ocean sciences .....	54	16	14	8	5	38	38	65	58	58	21
Atmospheric sciences.....	11	0	0	0	0	12	16	21	21	26	0
Earth sciences.....	40	16	14	8	5	5	7	21	16	10	11
Oceanography.....	3	0	0	0	0	21	15	23	21	22	10
Mathematics/computer sciences .....	5,312	6,552	4,656	4,283	4,202	5,152	4,976	5,261	8,464	9,808	10,254
Computer sciences.....	5,008	6,251	4,408	4,044	3,938	4,837	4,631	4,912	8,201	9,565	10,014
Mathematics/statistics.....	304	301	248	239	264	315	345	349	263	243	240
Physical sciences .....	514	344	427	472	539	561	686	807	671	552	610
Astronomy.....	0	0	0	0	0	0	0	0	0	0	1
Chemistry.....	57	60	47	43	31	114	154	159	175	84	93
Physics.....	14	4	7	11	14	22	11	18	30	25	36
Other physical sciences.....	443	280	373	418	494	425	521	630	466	443	480
Social/behavioral sciences.....	2,927	2,956	3,244	2,769	2,676	3,734	4,006	4,670	5,276	5,430	5,832
Psychology.....	635	671	722	830	740	953	1,154	1,230	1,119	1,183	1,324
Social sciences.....	2,292	2,285	2,522	1,939	1,936	2,781	2,852	3,440	4,157	4,247	4,508
Anthropology.....	22	27	29	29	20	36	38	51	30	47	54
Area/ethnic studies.....	12	24	8	7	13	23	46	56	191	254	244
Economics.....	36	16	58	71	64	72	59	84	94	95	130
Linguistics.....	0	1	1	0	0	0	0	0	0	0	0
Political science/public administration .....	936	899	1,134	492	554	716	767	1,009	773	707	698
Sociology.....	195	227	157	175	162	198	264	353	276	266	304
Other social sciences.....	1,091	1,091	1,135	1,165	1,123	1,736	1,678	1,887	2,793	2,878	3,078
Non-S&E.....	242,407	242,971	238,611	244,124	277,262	294,518	312,623	320,198	311,255	314,087	319,825
Engineering technologies .....	5,796	5,721	5,657	5,576	5,329	4,817	4,994	5,231	5,465	5,666	5,020

NOTE: Engineering technologies more focused on applied skills than on fundamental science and mathematics.

SOURCES: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey; and National Science Foundation, Division of Science Resources Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

## Earned associate's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
<b>All races/ethnicities and citizenships</b>											
All fields .....	459,087	440,816	440,375	486,297	519,098	544,094	546,031	549,191	543,876	552,046	553,735
S&E .....	25,957	22,168	19,482	19,157	23,145	24,228	25,771	28,646	33,651	38,063	42,200
Engineering .....	3,923	4,588	2,732	2,510	2,525	2,285	1,888	2,107	1,730	1,791	1,647
Aerospace .....	NA	NA	NA	NA	NA	2	1	0	1	0	0
Chemical .....	NA	NA	NA	NA	NA	16	7	8	13	18	28
Civil .....	NA	NA	NA	NA	NA	80	110	130	58	53	45
Electrical .....	NA	NA	NA	NA	NA	257	179	382	239	224	70
Industrial .....	NA	NA	NA	NA	NA	103	81	77	67	132	80
Materials .....	NA	NA	NA	NA	NA	8	5	13	11	14	10
Mechanical .....	NA	NA	NA	NA	NA	104	58	82	77	67	65
Other .....	NA	NA	NA	NA	NA	1,715	1,447	1,415	1,264	1,283	1,349
Science .....	22,034	17,579	16,747	16,644	20,619	21,943	23,883	26,539	31,921	36,272	40,553
Natural sciences .....	18,370	13,903	12,798	13,070	15,373	15,866	17,202	19,623	24,454	28,717	32,443
Agricultural sciences .....	2,393	1,824	1,893	2,039	2,227	1,910	1,865	2,007	1,943	2,083	1,983
Biological sciences .....	1,233	995	999	1,142	1,471	1,901	2,181	2,176	1,468	1,519	1,519
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	186	191	180	174	181	58
Atmospheric sciences .....	NA	NA	NA	NA	NA	107	95	105	92	103	0
Earth sciences .....	NA	NA	NA	NA	NA	28	51	38	28	35	28
Oceanography .....	NA	NA	NA	NA	NA	51	45	37	54	43	30
Mathematics/computer sciences .....	13,679	9,953	8,846	8,640	10,255	10,410	11,425	13,742	19,598	23,798	27,599
Computer sciences .....	12,890	9,286	8,192	7,970	9,512	9,627	10,632	12,899	18,928	23,106	26,916
Mathematics/statistics .....	789	667	654	670	743	783	793	843	670	692	683
Physical sciences .....	1,065	1,131	1,060	1,249	1,392	1,459	1,540	1,518	1,271	1,136	1,284
Astronomy .....	NA	NA	NA	NA	NA	0	1	0	1	1	2
Chemistry .....	NA	NA	NA	NA	NA	293	314	299	301	183	201
Physics .....	NA	NA	NA	NA	NA	98	92	111	106	118	125
Other physical sciences .....	NA	NA	NA	NA	NA	1,068	1,133	1,108	863	834	956
Social/behavioral sciences .....	3,664	3,676	3,949	3,574	5,246	6,077	6,681	6,916	7,467	7,555	8,110
Psychology .....	983	1,016	1,113	997	1,237	1,600	1,606	1,760	1,445	1,538	1,691
Social sciences .....	2,681	2,660	2,836	2,577	4,011	4,477	5,075	5,156	6,022	6,017	6,419
Anthropology .....	NA	NA	NA	NA	NA	66	77	132	51	77	82
Area/ethnic studies .....	32	14	15	19	33	63	87	104	244	297	305
Economics .....	NA	NA	NA	NA	NA	142	188	219	210	209	220
Linguistics .....	NA	NA	NA	NA	NA	0	0	0	0	0	0
Political science/public administration .....	NA	NA	NA	NA	NA	1,132	1,344	1,217	1,023	911	923
Sociology .....	NA	NA	NA	NA	NA	364	504	573	365	370	415
Other social sciences .....	NA	NA	NA	NA	NA	2,710	2,875	2,911	4,129	4,153	4,474
Non-S&E .....	433,130	418,648	420,893	467,140	495,953	519,866	520,260	520,545	510,225	513,983	511,535
Engineering technologies .....	51,579	47,434	46,180	42,595	38,473	39,190	35,221	35,163	35,544	35,413	31,557
<b>U.S. citizen/permanent resident</b>											
All fields .....	452,661	436,331	434,406	479,320	510,074	534,183	535,432	537,146	533,982	540,911	541,689
S&E .....	25,341	21,759	19,018	18,786	22,481	23,524	25,012	27,693	32,827	36,980	40,825
Engineering .....	3,767	4,468	2,649	2,442	2,447	2,208	1,821	1,974	1,662	1,695	1,590
Aerospace .....	NA	NA	NA	NA	NA	2	1	0	1	0	0

## Earned associate's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Chemical.....	NA	NA	NA	NA	NA	16	7	8	11	17	26
Civil .....	NA	NA	NA	NA	NA	78	105	119	54	53	43
Electrical.....	NA	NA	NA	NA	NA	251	173	339	236	187	69
Industrial.....	NA	NA	NA	NA	NA	103	80	76	66	130	78
Materials.....	NA	NA	NA	NA	NA	8	5	13	11	14	10
Mechanical.....	NA	NA	NA	NA	NA	102	57	80	76	67	64
Other .....	NA	NA	NA	NA	NA	1,648	1,393	1,339	1,207	1,227	1,300
Science.....	21,574	17,291	16,369	16,344	20,034	21,316	23,191	25,719	31,165	35,285	39,235
Natural sciences.....	17,983	13,645	12,496	12,826	14,923	15,393	16,705	19,031	23,849	27,911	31,296
Agricultural sciences.....	2,359	1,812	1,870	2,018	2,194	1,892	1,846	1,956	1,920	2,037	1,931
Biological sciences.....	1,213	960	964	1,120	1,433	1,824	2,103	2,094	1,441	1,484	1,489
Earth, atmospheric, and ocean sciences.....	NA	NA	NA	NA	NA	184	189	180	173	177	57
Atmospheric sciences.....	NA	NA	NA	NA	NA	105	95	105	92	103	0
Earth sciences.....	NA	NA	NA	NA	NA	28	49	38	27	31	27
Oceanography.....	NA	NA	NA	NA	NA	51	45	37	54	43	30
Mathematics/computer sciences.....	13,366	9,776	8,641	8,469	9,971	10,111	11,119	13,358	19,099	23,110	26,579
Computer sciences.....	12,616	9,121	8,005	7,815	9,275	9,367	10,370	12,564	18,462	22,460	25,932
Mathematics.....	750	655	636	654	696	744	749	794	637	650	647
Physical sciences.....	1,045	1,097	1,021	1,219	1,325	1,382	1,448	1,443	1,216	1,103	1,240
Astronomy.....	NA	NA	NA	NA	NA	0	1	0	1	1	2
Chemistry.....	NA	NA	NA	NA	NA	247	253	260	269	174	196
Physics.....	NA	NA	NA	NA	NA	89	82	103	98	115	120
Other physical sciences.....	NA	NA	NA	NA	NA	1,046	1,112	1,080	848	813	922
Social/behavioral sciences.....	3,591	3,646	3,873	3,518	5,111	5,923	6,486	6,688	7,316	7,374	7,939
Psychology.....	969	1,008	1,086	989	1,220	1,581	1,567	1,702	1,423	1,513	1,655
Social sciences.....	2,622	2,638	2,787	2,529	3,891	4,342	4,919	4,986	5,893	5,861	6,284
Anthropology.....	NA	NA	NA	NA	NA	58	66	126	48	75	81
Area/ethnic studies.....	32	14	15	19	31	49	82	94	228	276	290
Economics.....	NA	NA	NA	NA	NA	120	150	183	192	182	200
Political science/public administration.....	NA	NA	NA	NA	NA	1,115	1,317	1,189	1,011	897	912
Sociology.....	NA	NA	NA	NA	NA	353	494	562	361	360	409
Other social sciences.....	NA	NA	NA	NA	NA	2,647	2,810	2,832	4,053	4,071	4,392
Non-S&E.....	427,320	414,572	415,388	460,534	487,593	510,659	510,420	509,453	501,155	503,931	500,864
Engineering technologies.....	50,899	46,859	45,647	42,069	38,093	38,764	34,761	34,435	35,215	34,742	31,136
White.....											
All fields.....	355,422	345,546	330,557	376,869	392,637	408,126	400,307	396,735	380,777	378,041	372,372
S&E.....	18,133	16,169	13,898	13,842	15,631	16,392	16,835	18,415	20,982	23,970	26,204
Engineering.....	2,260	3,235	1,986	1,867	1,886	1,658	1,363	1,438	1,126	1,202	1,171
Aerospace.....	NA	NA	NA	NA	NA	0	1	0	1	0	0
Chemical.....	NA	NA	NA	NA	NA	14	5	7	11	17	22
Civil.....	NA	NA	NA	NA	NA	53	77	95	31	40	24
Electrical.....	NA	NA	NA	NA	NA	186	143	229	122	100	49
Industrial.....	NA	NA	NA	NA	NA	85	67	57	58	92	59
Materials.....	NA	NA	NA	NA	NA	8	5	13	8	12	8
Mechanical.....	NA	NA	NA	NA	NA	55	44	64	52	46	40

## Earned associate's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Other .....	NA	NA	NA	NA	NA	1,257	1,021	973	843	895	969
Science .....	15,873	12,934	11,912	11,975	13,745	14,734	15,472	16,977	19,856	22,768	25,033
Natural sciences .....	13,803	10,438	9,275	9,628	10,504	10,960	11,693	13,153	15,797	18,508	20,495
Agricultural sciences.....	2,138	1,571	1,705	1,847	2,017	1,633	1,680	1,768	1,718	1,824	1,715
Biological sciences .....	676	590	685	759	977	1,197	1,310	1,304	930	979	1,013
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	156	160	155	150	156	54
Atmospheric sciences.....	NA	NA	NA	NA	NA	82	83	89	74	85	0
Earth sciences.....	NA	NA	NA	NA	NA	23	40	33	24	29	25
Oceanography .....	NA	NA	NA	NA	NA	51	37	33	52	42	29
Mathematics/computer sciences .....	10,255	7,360	6,044	6,054	6,515	6,950	7,544	8,974	12,200	14,796	16,827
Computer sciences.....	9,730	6,879	5,583	5,577	6,006	6,471	7,052	8,473	11,821	14,438	16,446
Mathematics .....	525	481	461	477	509	479	492	501	379	358	381
Physical sciences .....	734	917	841	968	995	1,024	999	952	799	753	886
Astronomy .....	NA	NA	NA	NA	NA	0	0	0	0	1	2
Chemistry.....	NA	NA	NA	NA	NA	153	153	172	144	98	133
Physics.....	NA	NA	NA	NA	NA	62	45	62	65	72	77
Other physical sciences.....	NA	NA	NA	NA	NA	809	801	718	590	582	674
Social/behavioral sciences.....	2,070	2,496	2,637	2,347	3,241	3,774	3,779	3,824	4,059	4,260	4,538
Psychology .....	680	781	845	738	894	1,146	1,087	1,068	952	1,005	1,111
Social sciences.....	1,390	1,715	1,792	1,609	2,347	2,628	2,692	2,756	3,107	3,255	3,427
Anthropology .....	NA	NA	NA	NA	NA	45	44	89	31	51	62
Area/ethnic studies.....	3	3	3	7	5	14	10	19	59	208	211
Economics.....	NA	NA	NA	NA	NA	78	67	92	81	92	87
Political science/public administration .....	NA	NA	NA	NA	NA	544	593	513	367	352	337
Sociology.....	NA	NA	NA	NA	NA	223	287	313	202	187	209
Other social sciences.....	NA	NA	NA	NA	NA	1,724	1,691	1,730	2,367	2,365	2,521
Non-S&E .....	337,289	329,377	316,659	363,027	377,006	391,734	383,472	378,320	359,795	354,071	346,168
Engineering technologies .....	40,934	37,383	33,584	33,792	28,442	29,646	26,522	26,208	25,643	24,999	21,971
Asian/Pacific Islander											
All fields .....	10,165	11,329	11,761	15,069	16,280	20,976	23,882	23,909	25,654	25,780	28,032
S&E.....	828	1,051	834	842	1,108	1,392	1,700	1,884	2,384	2,502	2,877
Engineering.....	184	369	194	146	136	152	148	166	160	130	97
Aerospace.....	NA	NA	NA	NA	NA	1	0	0	0	0	0
Chemical .....	NA	NA	NA	NA	NA	2	1	1	0	0	2
Civil .....	NA	NA	NA	NA	NA	3	4	6	3	4	5
Electrical.....	NA	NA	NA	NA	NA	6	8	29	38	17	2
Industrial .....	NA	NA	NA	NA	NA	0	4	1	0	2	0
Materials .....	NA	NA	NA	NA	NA	0	0	0	0	0	0
Mechanical .....	NA	NA	NA	NA	NA	2	1	1	2	0	0
Other .....	NA	NA	NA	NA	NA	138	130	128	117	107	88
Science.....	644	682	640	696	972	1,240	1,552	1,718	2,224	2,372	2,780
Natural sciences.....	597	576	521	608	756	935	1,196	1,349	1,745	1,941	2,303
Agricultural sciences.....	4	10	6	8	6	10	4	8	19	9	9
Biological sciences .....	31	59	52	126	146	190	264	248	109	94	91
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	5	4	3	1	0	0

## Earned associate's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Atmospheric sciences.....	NA	NA	NA	NA	NA	4	3	0	0	0	0
Earth sciences.....	NA	NA	NA	NA	NA	1	0	2	1	0	0
Oceanography.....	NA	NA	NA	NA	NA	0	1	1	0	0	0
Mathematics/computer sciences.....	511	464	401	388	528	606	748	920	1,471	1,757	2,117
Computer sciences.....	448	395	336	323	459	513	661	820	1,381	1,651	2,026
Mathematics/statistics.....	63	69	65	65	69	93	87	100	90	106	91
Physical sciences.....	51	43	62	86	76	124	176	170	145	81	86
Chemistry.....	NA	NA	NA	NA	NA	38	51	38	51	29	15
Physics.....	NA	NA	NA	NA	NA	15	16	18	15	9	18
Other physical sciences.....	NA	NA	NA	NA	NA	71	109	114	79	43	53
Social/behavioral sciences.....	47	106	119	88	216	305	356	369	479	431	477
Psychology.....	8	19	14	24	33	57	63	53	51	53	50
Social sciences.....	39	87	105	64	183	248	293	316	428	378	427
Anthropology.....	NA	NA	NA	NA	NA	3	1	8	1	4	0
Area/ethnic studies.....	0	0	1	1	7	2	0	4	3	6	2
Economics.....	NA	NA	NA	NA	NA	13	35	35	41	32	36
Political science/public administration.....	NA	NA	NA	NA	NA	64	65	73	89	71	68
Sociology.....	NA	NA	NA	NA	NA	11	28	34	24	12	12
Other social sciences.....	NA	NA	NA	NA	NA	155	164	162	270	253	309
Non-S&E.....	9,337	10,278	10,927	14,227	15,172	19,584	22,182	22,025	23,270	23,278	25,155
Engineering technologies.....	1,570	1,989	1,663	1,496	1,358	1,458	1,586	1,521	1,752	1,725	1,711
Black											
All fields.....	35,861	33,858	32,185	37,854	41,260	45,923	51,588	52,957	55,154	57,851	58,454
S&E.....	1,653	1,766	1,460	1,631	1,963	2,307	2,577	2,856	3,856	4,351	4,859
Engineering.....	148	249	120	126	201	148	131	109	123	104	118
Aerospace.....	NA	NA	NA	NA	NA	1	0	0	0	0	0
Civil.....	NA	NA	NA	NA	NA	5	12	4	5	3	3
Electrical.....	NA	NA	NA	NA	NA	38	19	22	21	17	17
Industrial.....	NA	NA	NA	NA	NA	7	5	4	1	3	3
Materials.....	NA	NA	NA	NA	NA	0	0	0	0	0	1
Mechanical.....	NA	NA	NA	NA	NA	0	0	0	0	0	1
Other.....	NA	NA	NA	NA	NA	97	95	79	96	81	93
Science.....	1,505	1,517	1,340	1,505	1,762	2,159	2,446	2,747	3,733	4,247	4,741
Natural sciences.....	1,098	1,159	953	1,070	1,182	1,364	1,475	1,854	2,734	3,304	3,746
Agricultural sciences.....	19	27	17	14	15	23	11	9	18	3	14
Biological sciences.....	93	100	63	57	93	147	140	155	137	127	121
Earth, atmospheric, and ocean sciences.....	NA	NA	NA	NA	NA	10	9	14	13	9	1
Atmospheric sciences.....	NA	NA	NA	NA	NA	10	9	13	13	9	0
Earth sciences.....	NA	NA	NA	NA	NA	0	0	1	0	0	0
Oceanography.....	NA	NA	NA	NA	NA	0	0	0	0	0	1
Mathematics/computer sciences.....	938	961	828	921	1,004	1,091	1,219	1,564	2,481	3,085	3,533
Computer sciences.....	914	923	803	894	978	1,046	1,182	1,531	2,445	3,035	3,506
Mathematics/statistics.....	24	38	25	27	26	45	37	33	36	50	27
Physical sciences.....	48	71	45	78	70	93	96	112	85	80	77
Chemistry.....	NA	NA	NA	NA	NA	22	17	9	17	12	9

## Earned associate's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Physics.....	NA	NA	NA	NA	NA	5	7	7	2	1	1
Other physical sciences.....	NA	NA	NA	NA	NA	66	72	96	66	67	67
Social/behavioral sciences.....	407	358	387	435	580	795	971	893	999	943	995
Psychology.....	65	73	83	103	109	126	125	111	135	142	140
Social sciences.....	342	285	304	332	471	669	846	782	864	801	855
Anthropology.....	NA	NA	NA	NA	NA	3	4	3	3	1	1
Area/ethnic studies.....	1	3	5	6	10	9	19	9	16	7	13
Economics.....	NA	NA	NA	NA	NA	5	11	11	7	5	9
Political science/public administration.....	NA	NA	NA	NA	NA	264	347	330	275	254	248
Sociology.....	NA	NA	NA	NA	NA	50	63	75	55	66	73
Other social sciences.....	NA	NA	NA	NA	NA	338	402	354	508	468	511
Non-S&E.....	34,208	32,092	30,725	36,223	39,297	43,616	49,011	50,101	51,298	53,500	53,595
Engineering technologies.....	3,395	3,100	2,829	3,030	2,698	3,015	2,982	3,156	3,321	3,372	2,795
Hispanic											
All fields.....	22,783	22,804	23,475	29,019	33,015	38,499	42,784	45,452	50,488	54,333	55,900
S&E.....	1,380	1,635	1,453	1,463	2,152	2,498	2,773	3,103	3,868	4,131	4,531
Engineering.....	126	369	176	153	153	161	112	196	178	186	129
Chemical.....	NA	NA	NA	NA	NA	0	0	0	0	0	2
Civil.....	NA	NA	NA	NA	NA	7	6	12	5	2	6
Electrical.....	NA	NA	NA	NA	NA	8	2	56	48	48	0
Industrial.....	NA	NA	NA	NA	NA	6	1	13	7	33	11
Materials.....	NA	NA	NA	NA	NA	0	0	0	0	0	1
Mechanical.....	NA	NA	NA	NA	NA	44	12	13	21	19	23
Other.....	NA	NA	NA	NA	NA	96	91	102	97	84	86
Science.....	1,254	1,266	1,277	1,310	1,999	2,337	2,661	2,907	3,690	3,945	4,402
Natural sciences.....	924	901	845	909	1,386	1,558	1,636	1,915	2,497	2,696	3,045
Agricultural sciences.....	53	91	114	57	88	136	75	85	77	109	86
Biological sciences.....	135	153	88	130	160	208	276	289	183	220	188
Earth, atmospheric, and ocean sciences.....	NA	NA	NA	NA	NA	10	8	3	1	1	1
Atmospheric sciences.....	NA	NA	NA	NA	NA	9	0	0	0	0	0
Earth sciences.....	NA	NA	NA	NA	NA	1	7	2	1	1	1
Oceanography.....	NA	NA	NA	NA	NA	0	1	1	0	0	0
Mathematics/computer sciences.....	676	620	609	677	1,086	1,134	1,175	1,419	2,130	2,253	2,672
Computer sciences.....	638	581	562	622	1,019	1,035	1,065	1,299	2,033	2,154	2,567
Mathematics.....	38	39	47	55	67	99	110	120	97	99	105
Physical sciences.....	60	37	34	45	52	70	102	119	106	113	98
Astronomy.....	NA	NA	NA	NA	NA	0	1	0	1	0	0
Chemistry.....	NA	NA	NA	NA	NA	20	23	26	42	27	24
Physics.....	NA	NA	NA	NA	NA	5	11	10	11	22	16
Other physical sciences.....	NA	NA	NA	NA	NA	45	67	83	52	64	58
Social/behavioral sciences.....	330	365	432	401	613	779	1,025	992	1,193	1,249	1,357
Psychology.....	43	64	123	88	141	193	209	180	192	218	259
Social sciences.....	287	301	309	313	472	586	816	812	1,001	1,031	1,098
Anthropology.....	NA	NA	NA	NA	NA	4	12	19	8	10	13
Area/ethnic studies.....	1	2	0	0	2	8	23	23	17	7	15

## Earned associate's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Economics.....	NA	NA	NA	NA	NA	20	26	33	50	43	55
Political science/public administration .....	NA	NA	NA	NA	NA	214	277	248	249	195	219
Sociology.....	NA	NA	NA	NA	NA	54	90	107	63	78	92
Other social sciences.....	NA	NA	NA	NA	NA	286	388	382	614	698	704
Non-S&E.....	21,403	21,169	22,022	27,556	30,863	36,001	40,011	42,349	46,620	50,202	51,369
Engineering technologies .....	2,084	2,359	2,232	2,411	2,398	2,777	2,728	2,621	3,283	3,369	3,069
American Indian/Alaska Native											
All fields .....	2,953	3,049	3,102	3,772	4,213	5,352	5,520	6,161	5,697	5,758	5,965
S&E.....	163	195	182	257	315	419	455	500	525	501	577
Engineering.....	11	27	12	21	8	22	25	22	17	16	15
Civil .....	NA	NA	NA	NA	NA	1	3	1	2	1	1
Electrical.....	NA	NA	NA	NA	NA	1	1	2	0	0	0
Industrial .....	NA	NA	NA	NA	NA	1	1	0	0	0	0
Mechanical .....	NA	NA	NA	NA	NA	0	0	0	0	1	0
Other .....	NA	NA	NA	NA	NA	19	20	19	15	14	14
Science.....	152	168	170	236	307	397	430	478	508	485	562
Natural sciences.....	101	98	111	157	189	241	243	295	312	317	331
Agricultural sciences.....	29	28	23	37	41	54	54	64	67	48	49
Biological sciences .....	8	17	19	22	25	40	46	37	37	32	41
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	1	1	3	0	0	0
Atmospheric sciences.....	NA	NA	NA	NA	NA	0	0	3	0	0	0
Earth sciences.....	NA	NA	NA	NA	NA	1	1	0	0	0	0
Mathematics/computer sciences .....	56	49	67	91	116	124	122	161	195	220	224
Computer sciences.....	52	45	58	78	101	111	120	148	188	208	217
Mathematics .....	4	4	9	13	15	13	2	13	7	12	7
Physical sciences .....	8	4	2	7	7	22	20	30	13	17	17
Chemistry.....	NA	NA	NA	NA	NA	4	1	7	1	4	4
Physics.....	NA	NA	NA	NA	NA	0	1	3	0	2	0
Other physical sciences.....	NA	NA	NA	NA	NA	18	18	20	12	11	13
Social/behavioral sciences.....	51	70	59	79	118	156	187	183	196	168	231
Psychology .....	11	16	13	16	18	35	38	37	38	34	32
Social sciences.....	40	54	46	63	100	121	149	146	158	134	199
Anthropology .....	NA	NA	NA	NA	NA	2	1	3	1	2	0
Area/ethnic studies.....	5	6	6	4	7	16	29	36	26	22	21
Economics.....	NA	NA	NA	NA	NA	1	1	1	2	1	3
Political science/public administration .....	NA	NA	NA	NA	NA	13	17	6	16	4	8
Sociology .....	NA	NA	NA	NA	NA	7	9	8	1	4	4
Other social sciences.....	NA	NA	NA	NA	NA	82	92	92	112	101	163
Non-S&E.....	2,790	2,854	2,920	3,515	3,898	4,933	5,065	5,661	5,172	5,257	5,388
Engineering technologies .....	267	219	257	232	210	286	236	286	273	253	239
Other/unknown race/ethnicity											
All fields .....	25,477	19,745	33,326	16,737	22,669	15,307	11,351	11,932	16,212	19,148	20,966
S&E.....	3,184	943	1,191	751	1,312	516	672	935	1,212	1,525	1,777
Engineering.....	1,038	219	161	129	63	67	42	43	58	57	60
Chemical .....	NA	NA	NA	NA	NA	0	1	0	0	0	0

## Earned associate's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Civil .....	NA	NA	NA	NA	NA	9	3	1	8	3	4
Electrical.....	NA	NA	NA	NA	NA	12	0	1	7	5	1
Industrial.....	NA	NA	NA	NA	NA	4	2	1	0	0	5
Materials .....	NA	NA	NA	NA	NA	0	0	0	3	2	0
Mechanical .....	NA	NA	NA	NA	NA	1	0	2	1	1	0
Other .....	NA	NA	NA	NA	NA	41	36	38	39	46	50
Science.....	2,146	724	1,030	622	1,249	449	630	892	1,154	1,468	1,717
Natural sciences .....	1,460	473	791	454	906	335	462	465	764	1,145	1,376
Agricultural sciences.....	116	85	5	55	27	36	22	22	21	44	58
Biological sciences .....	270	41	57	26	32	42	67	61	45	32	35
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	2	7	2	8	11	1
Atmospheric sciences.....	NA	NA	NA	NA	NA	0	0	0	5	9	0
Earth sciences.....	NA	NA	NA	NA	NA	2	1	0	1	1	1
Oceanography .....	NA	NA	NA	NA	NA	0	6	2	2	1	0
Mathematics/computer sciences .....	930	322	692	338	722	206	311	320	622	999	1,206
Computer sciences.....	834	298	663	321	712	191	290	293	594	974	1,170
Mathematics .....	96	24	29	17	10	15	21	27	28	25	36
Physical sciences .....	144	25	37	35	125	49	55	60	68	59	76
Chemistry.....	NA	NA	NA	NA	NA	10	8	8	14	4	11
Physics.....	NA	NA	NA	NA	NA	2	2	3	5	9	8
Other physical sciences.....	NA	NA	NA	NA	NA	37	45	49	49	46	57
Social/behavioral sciences.....	686	251	239	168	343	114	168	427	390	323	341
Psychology .....	162	55	8	20	25	24	45	253	55	61	63
Social sciences.....	524	196	231	148	318	90	123	174	335	262	278
Anthropology .....	NA	NA	NA	NA	NA	1	4	4	4	7	5
Area/ethnic studies.....	22	0	0	1	0	0	1	3	107	26	28
Economics.....	NA	NA	NA	NA	NA	3	10	11	11	9	10
Political science/public administration .....	NA	NA	NA	NA	NA	16	18	19	15	21	32
Sociology.....	NA	NA	NA	NA	NA	8	17	25	16	13	19
Other social sciences.....	NA	NA	NA	NA	NA	62	73	112	182	186	184
Non-S&E.....	22,293	18,802	32,135	15,986	21,357	14,791	10,679	10,997	15,000	17,623	19,189
Engineering technologies .....	2,649	1,809	5,082	1,108	2,987	1,582	707	643	943	1,024	1,351
Temporary resident											
All fields .....	6,426	4,485	5,969	6,977	9,024	9,911	10,599	12,045	9,894	11,135	12,046
S&E.....	616	408	461	368	637	704	759	953	824	1,083	1,375
Engineering.....	156	120	83	68	78	77	67	133	68	96	57
Chemical .....	NA	NA	NA	NA	NA	0	0	0	2	1	2
Civil .....	NA	NA	NA	NA	NA	2	5	11	4	0	2
Electrical.....	NA	NA	NA	NA	NA	6	6	43	3	37	1
Industrial.....	NA	NA	NA	NA	NA	0	1	1	1	2	2
Mechanical .....	NA	NA	NA	NA	NA	2	1	2	1	0	1
Other .....	NA	NA	NA	NA	NA	67	54	76	57	56	49
Science.....	460	288	378	300	559	627	692	820	756	987	1,318
Natural sciences .....	387	258	302	244	422	473	497	592	605	806	1,147
Agricultural sciences.....	34	12	23	21	33	18	19	51	23	46	52

**Earned associate's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002**

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Biological sciences .....	20	35	35	22	38	77	78	82	27	35	30
Earth, atmospheric, and ocean sciences.....	NA	NA	NA	NA	NA	2	2	0	1	4	1
Atmospheric sciences.....	NA	NA	NA	NA	NA	2	0	0	0	0	0
Earth sciences.....	NA	NA	NA	NA	NA	0	2	0	1	4	1
Mathematics/computer sciences.....	313	177	205	171	284	299	306	384	499	688	1,020
Computer sciences.....	274	165	187	155	237	260	262	335	466	646	984
Mathematics.....	39	12	18	16	47	39	44	49	33	42	36
Physical sciences.....	20	34	39	30	67	77	92	75	55	33	44
Chemistry.....	NA	NA	NA	NA	NA	46	61	39	32	9	5
Physics.....	NA	NA	NA	NA	NA	9	10	8	8	3	5
Other physical sciences.....	NA	NA	NA	NA	NA	22	21	28	15	21	34
Social/behavioral sciences.....	73	30	76	56	137	154	195	228	151	181	171
Psychology.....	14	8	27	8	17	19	39	58	22	25	36
Social sciences.....	59	22	49	48	120	135	156	170	129	156	135
Anthropology.....	NA	NA	NA	NA	NA	8	11	6	3	2	1
Area/ethnic studies.....	0	0	0	0	2	14	5	10	16	21	15
Economics.....	NA	NA	NA	NA	NA	22	38	36	18	27	20
Political science/public administration.....	NA	NA	NA	NA	NA	17	27	28	12	14	11
Sociology.....	NA	NA	NA	NA	NA	11	10	11	4	10	6
Other social sciences.....	NA	NA	NA	NA	NA	63	65	79	76	82	82
Non-S&E.....	5,810	4,077	5,508	6,609	8,387	9,207	9,840	11,092	9,070	10,052	10,671
Engineering technologies.....	680	575	533	526	380	426	460	728	329	671	421

NA = not available

NOTES: Race/ethnicity data collected on broad fields of study only until 1994. Field taxonomies for data through 1994 do not exactly match field taxonomies used in tables by sex, or race/ethnicity data after 1994. Primary difference between taxonomies: history included in social sciences before 1995 but included in non-S&E from 1995 on. Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all races/ethnicities. Data not available for 1983 or 1999.

SOURCES: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey; and National Science Foundation, Division of Science Resources Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

*Science and Engineering Indicators 2006*

**Earned bachelor's degrees, by field and sex: Selected years, 1983–2002**

Field and sex	1983	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
<b>Both sexes</b>												
All fields .....	980,679	990,877	1,003,532	1,030,171	1,107,997	1,179,278	1,174,436	1,186,589	1,199,579	1,253,121	1,257,648	1,305,730
S&E.....	317,571	332,273	331,526	322,821	337,675	366,035	378,148	388,482	390,618	398,622	400,206	415,611
Engineering.....	72,670	77,572	74,425	66,947	62,187	62,705	63,371	62,352	60,914	59,536	59,258	60,639
Aerospace.....	2,127	2,854	2,989	2,944	2,869	2,735	1,771	1,290	1,247	1,267	1,498	1,747
Chemical.....	8,550	8,941	6,114	4,187	3,728	4,899	6,391	6,977	6,721	6,219	6,088	5,946
Civil.....	10,747	9,730	8,746	8,015	8,083	9,788	11,329	12,010	11,522	9,596	8,949	8,891
Electrical.....	19,205	23,668	26,791	24,318	21,520	19,598	17,579	16,434	16,322	17,672	18,371	18,977
Industrial.....	3,824	4,009	4,313	4,121	3,820	3,584	3,519	3,997	3,988	3,937	3,818	3,976
Materials.....	1,392	1,276	1,152	1,114	1,166	1,216	1,046	1,063	1,007	972	930	933
Mechanical.....	16,031	17,200	15,723	15,217	14,263	14,708	15,141	13,806	13,363	13,109	13,160	13,377
Other.....	10,794	8,894	8,597	7,031	6,738	6,177	6,595	6,775	6,744	6,764	6,444	6,792
Science.....	244,901	254,701	257,101	255,874	275,488	303,330	314,777	326,130	329,704	339,086	340,948	354,972
Natural sciences.....	116,250	129,668	125,166	109,137	105,383	116,745	129,465	140,346	144,441	150,898	152,326	158,536
Agricultural sciences.....	14,528	11,907	9,524	8,582	8,432	11,632	14,580	17,361	17,967	18,244	17,467	17,360
Biological sciences.....	40,883	39,405	39,047	36,949	40,351	47,989	56,890	65,139	67,112	64,904	62,089	61,768
Earth, atmospheric, and ocean sciences.....	7,298	7,576	4,689	3,181	2,728	3,503	4,478	4,466	4,321	4,047	3,968	3,984
Atmospheric sciences.....	396	414	345	330	360	369	444	431	443	490	456	525
Earth sciences.....	6,774	7,001	4,189	2,707	2,214	2,901	3,820	3,830	3,665	3,359	3,334	3,234
Oceanography.....	128	161	155	144	154	233	214	205	213	198	178	225
Mathematics/computer sciences.....	37,344	54,510	56,442	46,277	40,194	39,433	38,620	38,116	39,768	49,123	54,639	61,408
Computer sciences.....	24,682	39,121	39,927	30,963	25,410	24,580	24,769	25,393	27,674	37,388	43,184	49,135
Mathematics/statistics.....	12,662	15,389	16,515	15,314	14,784	14,853	13,851	12,723	12,094	11,735	11,455	12,273
Physical sciences.....	16,197	16,270	15,464	14,148	13,678	14,188	14,897	15,264	15,273	14,580	14,163	14,016
Astronomy.....	96	119	130	164	151	167	169	140	168	160	240	276
Chemistry.....	11,039	10,701	9,830	8,822	8,461	9,109	10,016	10,926	10,873	10,390	9,822	9,448
Physics.....	3,800	4,111	4,324	4,347	4,245	4,080	3,836	3,393	3,455	3,362	3,457	3,651
Other physical sciences.....	1,262	1,339	1,180	815	821	832	876	805	777	668	644	641
Social/behavioral sciences.....	128,651	125,033	131,935	146,737	170,105	186,585	185,312	185,784	185,263	188,188	188,622	196,436
Psychology.....	40,825	40,237	43,195	48,954	58,893	67,251	72,601	74,734	74,457	74,654	74,168	77,323
Social sciences.....	87,826	84,796	88,740	97,783	111,212	119,334	112,711	111,050	110,806	113,534	114,454	119,113
Anthropology.....	2,873	2,684	2,802	3,135	4,212	5,203	5,806	6,759	6,894	7,057	6,898	7,198
Area/ethnic studies.....	2,993	2,872	3,313	3,950	4,625	5,073	5,176	5,257	5,441	5,617	5,561	5,844
Economics.....	22,410	23,073	24,402	25,301	25,302	22,973	19,083	17,701	18,244	19,400	20,377	21,827
History of science.....	0	0	0	0	0	9	29	31	39	92	101	103
Linguistics.....	474	490	477	447	572	553	564	577	680	727	757	861
Political science/public administration.....	31,871	32,378	33,876	38,246	44,257	47,936	41,978	37,807	36,654	36,439	36,651	38,573
Sociology.....	14,347	12,165	12,359	14,393	17,632	21,007	22,974	24,750	24,884	25,685	25,363	25,318
Other social sciences.....	12,858	11,134	11,511	12,311	14,612	16,580	17,101	18,168	17,970	18,517	18,746	19,389
Non-S&E.....	663,108	658,604	672,006	707,350	770,322	813,243	796,288	798,107	808,961	854,499	857,442	890,119
Engineering technologies.....	18,602	20,476	20,577	20,098	18,294	17,022	16,607	14,631	14,825	15,238	15,127	15,406
<b>Male</b>												
All fields.....	483,395	486,660	485,003	487,566	508,952	537,536	531,146	525,282	525,714	536,158	536,023	553,957
S&E.....	194,380	203,402	199,981	189,338	189,328	200,315	202,217	201,471	200,221	197,669	197,623	204,408
Engineering.....	63,018	66,326	63,021	56,759	52,522	52,724	52,421	50,882	49,575	47,320	47,344	47,952

Appendix table 2-26  
**Earned bachelor's degrees, by field and sex: Selected years, 1983–2002**

Field and sex	1983	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Aerospace.....	1,955	2,613	2,741	2,643	2,545	2,419	1,541	1,088	1,050	1,029	1,194	1,435
Chemical.....	6,761	6,848	4,574	3,017	2,564	3,335	4,367	4,701	4,525	4,016	4,033	3,823
Civil.....	9,263	8,388	7,550	6,841	6,803	8,009	9,031	9,441	8,946	7,263	6,908	6,667
Electrical.....	17,283	20,936	23,227	21,130	18,757	17,339	15,409	14,416	14,310	15,322	15,829	16,257
Industrial.....	2,824	2,842	2,929	2,860	2,723	2,547	2,493	2,918	2,968	2,630	2,594	2,635
Materials.....	1,104	990	854	853	912	956	799	804	772	704	667	648
Mechanical.....	14,546	15,399	13,996	13,537	12,673	13,076	13,441	12,171	11,727	11,325	11,421	11,594
Other.....	9,282	8,310	7,150	5,878	5,545	5,043	5,340	5,343	5,277	5,031	4,698	4,893
Science.....	131,362	137,076	136,960	132,579	136,806	147,591	149,796	150,589	150,646	150,349	150,279	156,456
Natural sciences.....	70,970	78,306	75,460	65,691	61,906	67,799	73,540	77,597	78,906	80,791	81,821	85,257
Agricultural sciences.....	9,206	7,737	6,129	5,557	5,292	7,294	8,943	10,094	10,224	9,780	8,976	8,726
Biological sciences.....	21,926	20,435	20,039	18,295	19,715	23,145	26,972	29,873	30,011	26,946	25,005	24,073
Earth, atmospheric, and ocean sciences.....	5,450	5,715	3,629	2,380	1,946	2,453	2,954	2,924	2,722	2,430	2,346	2,282
Atmospheric sciences.....	330	346	284	278	303	305	362	348	339	376	324	374
Earth sciences.....	5,007	5,244	3,218	1,995	1,530	1,978	2,456	2,445	2,262	1,950	1,934	1,788
Oceanography.....	113	125	127	107	113	170	136	131	121	104	88	120
Mathematics/computer sciences.....	22,802	32,985	34,871	29,682	25,700	25,483	25,066	25,324	26,670	33,045	37,242	42,142
Computer sciences.....	15,690	24,690	26,038	21,418	17,896	17,629	17,706	18,490	20,235	26,914	31,284	35,631
Mathematics.....	7,112	8,295	8,833	8,264	7,804	7,854	7,360	6,834	6,435	6,131	5,958	6,511
Physical sciences.....	11,586	11,434	10,792	9,777	9,253	9,424	9,605	9,382	9,279	8,590	8,252	8,034
Astronomy.....	72	89	107	127	112	120	117	94	110	106	145	160
Chemistry.....	7,303	6,807	6,156	5,391	5,046	5,365	5,783	6,043	5,900	5,483	5,047	4,719
Physics.....	3,317	3,550	3,629	3,705	3,575	3,403	3,161	2,741	2,789	2,638	2,701	2,825
Other physical sciences.....	894	988	900	554	520	536	544	504	480	363	359	330
Social/behavioral sciences.....	60,392	58,770	61,500	66,888	74,900	79,792	76,256	72,992	71,740	69,558	68,458	71,199
Psychology.....	13,228	12,815	13,399	14,291	16,155	18,029	19,638	19,491	19,057	17,540	16,701	17,397
Social sciences.....	47,164	45,955	48,101	52,597	58,745	61,763	56,618	53,501	52,683	52,018	51,757	53,802
Anthropology.....	1,016	1,021	1,003	1,155	1,486	1,863	2,117	2,446	2,414	2,315	2,192	2,272
Area/ethnic studies.....	1,104	1,101	1,251	1,613	1,858	1,967	2,082	2,001	2,000	2,045	1,904	2,036
Economics.....	15,163	15,400	16,335	17,224	17,725	16,161	13,235	12,253	12,453	13,016	13,453	14,438
History of science.....	0	0	0	0	0	4	14	14	21	40	45	40
Linguistics.....	117	140	140	134	179	159	153	184	197	229	245	249
Political science/public administration.....	18,679	18,799	19,365	21,622	24,648	26,701	23,010	19,953	19,334	18,092	18,014	18,830
Sociology.....	4,363	3,767	3,897	4,488	5,427	6,638	7,435	7,846	7,762	7,657	7,440	7,307
Other social sciences.....	6,722	5,727	6,110	6,361	7,422	8,270	8,572	8,804	8,502	8,624	8,464	8,630
Non-S&E.....	289,015	283,258	285,022	298,228	319,624	337,221	328,929	323,811	325,493	338,489	338,400	349,549
Engineering technologies.....	16,473	18,224	18,429	17,999	16,329	15,114	14,704	12,925	12,993	13,291	13,072	13,267
Female												
All fields.....	497,284	504,217	518,529	542,605	599,045	641,742	643,290	661,307	673,865	716,963	721,625	751,773
S&E.....	123,191	128,871	131,545	133,483	148,347	165,720	175,931	187,011	190,397	200,953	202,583	211,203
Engineering.....	9,652	11,246	11,404	10,188	9,665	9,981	10,950	11,470	11,339	12,216	11,914	12,687
Aerospace.....	172	241	248	301	324	316	230	202	197	238	304	312
Chemical.....	1,789	2,093	1,540	1,170	1,164	1,564	2,024	2,276	2,196	2,203	2,055	2,123
Civil.....	1,484	1,342	1,196	1,174	1,280	1,779	2,298	2,569	2,576	2,333	2,041	2,224
Electrical.....	1,922	2,732	3,564	3,188	2,763	2,259	2,170	2,018	2,012	2,350	2,542	2,720

## Earned bachelor's degrees, by field and sex: Selected years, 1983–2002

Field and sex	1983	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Industrial.....	1,000	1,167	1,384	1,261	1,097	1,037	1,026	1,079	1,020	1,307	1,224	1,341
Materials.....	288	286	298	261	254	260	247	259	235	268	263	285
Mechanical.....	1,485	1,801	1,727	1,680	1,590	1,632	1,700	1,635	1,636	1,784	1,739	1,783
Other.....	1,512	1,584	1,447	1,153	1,193	1,134	1,255	1,432	1,467	1,733	1,746	1,899
Science.....	113,539	117,625	120,141	123,295	138,682	155,739	164,981	175,541	179,058	188,737	190,669	198,516
Natural sciences.....	45,280	51,362	49,706	43,446	43,477	48,946	55,925	62,749	65,535	70,107	70,505	73,279
Agricultural sciences.....	5,322	4,170	3,395	3,025	3,140	4,338	5,637	7,267	7,743	8,464	8,491	8,634
Biological sciences.....	18,957	18,970	19,008	18,654	20,636	24,844	29,918	35,266	37,101	37,958	37,084	37,695
Earth, atmospheric, and ocean sciences.....	1,848	1,861	1,060	801	782	1,050	1,524	1,542	1,599	1,617	1,622	1,702
Atmospheric sciences.....	66	68	61	52	57	64	82	83	104	114	132	151
Earth sciences.....	1,767	1,757	971	712	684	923	1,364	1,385	1,403	1,409	1,400	1,446
Oceanography.....	15	36	28	37	41	63	78	74	92	94	90	105
Mathematics/computer sciences.....	14,542	21,525	21,571	16,595	14,494	13,950	13,554	12,792	13,098	16,078	17,397	19,266
Computer sciences.....	8,992	14,431	13,889	9,545	7,514	6,951	7,063	6,903	7,439	10,474	11,900	13,504
Mathematics/statistics.....	5,550	7,094	7,682	7,050	6,980	6,999	6,491	5,889	5,659	5,604	5,497	5,762
Physical sciences.....	4,611	4,836	4,672	4,371	4,425	4,764	5,292	5,882	5,994	5,990	5,911	5,982
Astronomy.....	24	30	23	37	39	47	52	46	58	54	95	116
Chemistry.....	3,736	3,894	3,674	3,431	3,415	3,744	4,233	4,883	4,973	4,907	4,775	4,729
Physics.....	483	561	695	642	670	677	675	652	666	724	756	826
Other physical sciences.....	368	351	280	261	301	296	332	301	297	305	285	311
Social/behavioral sciences.....	68,259	66,263	70,435	79,849	95,205	106,793	109,056	112,792	113,523	118,630	120,164	125,237
Psychology.....	27,597	27,422	29,796	34,663	42,738	49,222	52,963	55,243	55,400	57,114	57,467	59,926
Social sciences.....	40,662	38,841	40,639	45,186	52,467	57,571	56,093	57,549	58,123	61,516	62,697	65,311
Anthropology.....	1,857	1,663	1,799	1,980	2,726	3,340	3,689	4,313	4,480	4,742	4,706	4,926
Area/ethnic studies.....	1,889	1,771	2,062	2,337	2,767	3,106	3,094	3,256	3,441	3,572	3,657	3,808
Economics.....	7,247	7,673	8,067	8,077	7,577	6,812	5,848	5,448	5,791	6,384	6,924	7,389
History of science.....	0	0	0	0	0	5	15	17	18	52	56	63
Linguistics.....	357	350	337	313	393	394	411	393	483	498	512	612
Political science/public administration.....	13,192	13,579	14,511	16,624	19,609	21,235	18,968	17,854	17,320	18,347	18,637	19,743
Sociology.....	9,984	8,398	8,462	9,905	12,205	14,369	15,539	16,904	17,122	18,028	17,923	18,011
Other social sciences.....	6,136	5,407	5,401	5,950	7,190	8,310	8,529	9,364	9,468	9,893	10,282	10,759
Non-S&E.....	374,093	375,346	386,984	409,122	450,698	476,022	467,359	474,296	483,468	516,010	519,042	540,570
Engineering technologies.....	2,129	2,252	2,148	2,099	1,965	1,908	1,903	1,706	1,832	1,947	2,055	2,139

NOTE: Engineering technologies more focused on applied skills than on fundamental science and mathematics.

SOURCES: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey; and National Science Foundation, Division of Science Resources Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

## Earned bachelor's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
All races/ethnicities and citizenships											
All fields .....	990,877	1,003,532	1,030,171	1,107,997	1,179,278	1,174,436	1,186,589	1,199,579	1,253,121	1,257,648	1,305,730
S&E .....	342,970	343,070	337,431	356,785	388,435	378,148	388,482	390,618	398,622	400,206	415,611
Engineering .....	77,571	74,423	66,947	62,186	62,670	63,371	62,352	60,914	59,536	59,258	60,639
Aerospace .....	NA	NA	NA	NA	NA	1,771	1,290	1,247	1,267	1,498	1,747
Chemical .....	NA	NA	NA	NA	NA	6,391	6,977	6,721	6,219	6,088	5,946
Civil .....	NA	NA	NA	NA	NA	11,329	12,010	11,522	9,596	8,949	8,891
Electrical .....	NA	NA	NA	NA	NA	17,579	16,434	16,322	17,672	18,371	18,977
Industrial .....	NA	NA	NA	NA	NA	15,141	13,806	13,363	13,109	13,160	13,377
Materials .....	NA	NA	NA	NA	NA	1,046	1,063	1,007	972	930	933
Mechanical .....	NA	NA	NA	NA	NA	3,519	3,997	3,988	3,937	3,818	3,976
Other .....	NA	NA	NA	NA	NA	6,595	6,775	6,744	6,764	6,444	6,792
Science .....	265,399	268,647	270,484	294,599	325,765	314,777	326,130	329,704	339,086	340,948	354,972
Natural sciences .....	130,058	125,371	109,350	105,595	116,742	129,465	140,346	144,441	150,898	152,326	158,536
Agricultural sciences .....	12,418	9,727	8,795	8,643	11,827	14,580	17,361	17,967	18,244	17,467	17,360
Biological sciences .....	39,405	39,047	36,949	40,351	47,877	56,890	65,139	67,112	64,904	62,089	61,768
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	4,478	4,466	4,321	4,047	3,968	3,984
Atmospheric sciences .....	NA	NA	NA	NA	NA	444	431	443	490	456	525
Earth sciences .....	NA	NA	NA	NA	NA	3,820	3,830	3,665	3,359	3,334	3,234
Oceanography .....	NA	NA	NA	NA	NA	214	205	213	198	178	225
Mathematics/computer sciences .....	54,388	56,442	46,277	40,194	39,347	38,620	38,116	39,768	49,123	54,639	61,408
Computer sciences .....	39,121	39,927	30,963	25,410	24,477	24,769	25,393	27,674	37,388	43,184	49,135
Mathematics/statistics .....	15,267	16,515	15,314	14,784	14,870	13,851	12,723	12,094	11,735	11,455	12,273
Physical sciences .....	23,847	20,155	17,329	16,407	17,691	14,897	15,264	15,273	14,580	14,163	14,016
Astronomy .....	NA	NA	NA	NA	NA	169	140	168	160	240	276
Chemistry .....	NA	NA	NA	NA	NA	10,016	10,926	10,873	10,390	9,822	9,448
Physics .....	NA	NA	NA	NA	NA	3,836	3,393	3,455	3,362	3,457	3,651
Other physical sciences .....	NA	NA	NA	NA	NA	876	805	777	668	644	641
Social/behavioral sciences .....	135,341	143,276	161,134	189,004	209,023	185,312	185,784	185,263	188,188	188,622	196,436
Psychology .....	40,237	43,195	48,954	58,893	67,251	72,601	74,734	74,457	74,654	74,168	77,323
Social sciences .....	95,104	100,081	112,180	130,111	141,772	112,711	111,050	110,806	113,534	114,454	119,113
Anthropology .....	NA	NA	NA	NA	NA	5,806	6,759	6,894	7,057	6,898	7,198
Area/ethnic studies .....	2,872	3,313	3,950	4,625	5,484	5,176	5,257	5,441	5,617	5,561	5,844
Economics .....	NA	NA	NA	NA	NA	19,083	17,701	18,244	19,400	20,377	21,827
History of science .....	NA	NA	NA	NA	NA	29	31	39	92	101	103
Linguistics .....	NA	NA	NA	NA	NA	564	577	680	727	757	861
Political science/public administration .....	NA	NA	NA	NA	NA	41,978	37,807	36,654	36,439	36,651	38,573
Sociology .....	NA	NA	NA	NA	NA	22,974	24,750	24,884	25,685	25,363	25,318
Other social sciences .....	NA	NA	NA	NA	NA	17,101	18,168	17,970	18,517	18,746	19,389
Non-S&E .....	647,907	660,462	692,740	751,212	790,843	796,288	798,107	808,961	854,499	857,442	890,119
Engineering technologies .....	20,533	20,577	20,098	18,294	16,987	16,607	14,631	14,825	15,238	15,127	15,406
U.S. citizen/permanent resident											
All fields .....	961,619	974,940	1,003,714	1,078,340	1,146,907	1,137,424	1,147,815	1,160,692	1,214,326	1,218,169	1,264,606
S&E .....	328,899	329,393	325,108	344,061	374,633	363,463	373,745	375,909	383,438	384,492	399,288
Engineering .....	71,381	68,534	61,875	57,604	58,165	58,561	57,555	56,271	55,003	54,839	56,372

## Earned bachelor's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Aerospace.....	NA	NA	NA	NA	NA	1,655	1,161	1,110	1,146	1,350	1,625
Chemical .....	NA	NA	NA	NA	NA	5,867	6,406	6,214	5,774	5,664	5,499
Civil .....	NA	NA	NA	NA	NA	10,892	11,536	11,012	9,137	8,537	8,520
Electrical.....	NA	NA	NA	NA	NA	15,462	14,564	14,485	15,836	16,529	17,108
Industrial.....	NA	NA	NA	NA	NA	3,095	3,517	3,502	3,456	3,343	3,534
Materials .....	NA	NA	NA	NA	NA	1,016	1,035	974	935	888	904
Mechanical .....	NA	NA	NA	NA	NA	14,360	12,898	12,566	12,320	12,416	12,694
Other .....	NA	NA	NA	NA	NA	6,214	6,438	6,408	6,399	6,112	6,488
Science.....	257,518	260,859	263,233	286,457	316,468	304,902	316,190	319,638	328,435	329,653	342,916
Natural sciences .....	125,047	120,352	104,928	101,039	111,656	124,311	135,412	139,460	145,321	146,216	151,871
Agricultural sciences.....	11,981	9,438	8,529	8,373	11,478	14,322	17,108	17,674	17,986	17,219	17,098
Biological sciences .....	38,490	38,185	36,076	39,288	46,660	55,607	63,677	65,689	63,528	60,652	60,311
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	4,405	4,388	4,239	4,001	3,919	3,925
Atmospheric sciences.....	NA	NA	NA	NA	NA	440	420	439	482	454	519
Earth sciences.....	NA	NA	NA	NA	NA	3,761	3,770	3,590	3,326	3,288	3,185
Oceanography.....	NA	NA	NA	NA	NA	204	198	210	193	177	221
Mathematics/computer sciences .....	51,509	53,209	43,599	37,579	36,591	35,730	35,568	37,178	45,758	50,821	57,066
Computer sciences.....	37,005	37,349	28,828	23,373	22,273	22,472	23,378	25,537	34,502	39,792	45,247
Mathematics/statistics .....	14,504	15,860	14,771	14,206	14,318	13,258	12,190	11,641	11,256	11,029	11,819
Physical sciences .....	23,067	19,520	16,724	15,799	16,927	14,247	14,671	14,680	14,048	13,605	13,471
Astronomy.....	NA	NA	NA	NA	NA	159	132	157	156	227	260
Chemistry.....	NA	NA	NA	NA	NA	9,620	10,530	10,488	10,046	9,487	9,105
Physics.....	NA	NA	NA	NA	NA	3,613	3,217	3,277	3,202	3,275	3,484
Other physical sciences.....	NA	NA	NA	NA	NA	855	792	758	644	616	622
Social/behavioral sciences.....	132,471	140,507	158,305	185,418	204,812	180,591	180,778	180,178	183,114	183,437	191,045
Psychology .....	39,694	42,701	48,443	58,202	66,421	71,659	73,685	73,287	73,390	72,885	75,956
Social sciences.....	92,777	97,806	109,862	127,216	138,391	108,932	107,093	106,891	109,724	110,552	115,089
Anthropology .....	NA	NA	NA	NA	NA	5,691	6,586	6,792	6,941	6,778	7,084
Area/ethnic studies.....	2,800	3,246	3,824	4,491	5,348	4,951	5,059	5,264	5,439	5,394	5,684
Economics.....	NA	NA	NA	NA	NA	17,393	15,877	16,461	17,709	18,553	19,923
History of science.....	NA	NA	NA	NA	NA	28	31	38	91	98	101
Linguistics.....	NA	NA	NA	NA	NA	484	491	580	644	680	780
Political science/public administration .....	NA	NA	NA	NA	NA	40,890	36,755	35,475	35,285	35,504	37,411
Sociology.....	NA	NA	NA	NA	NA	22,642	24,451	24,575	25,386	25,105	25,023
Other social sciences.....	NA	NA	NA	NA	NA	16,853	17,843	17,706	18,229	18,440	19,083
Non-S&E.....	632,720	645,547	678,606	734,279	772,274	773,961	774,070	784,783	830,888	833,677	865,318
Engineering technologies .....	19,256	19,591	19,439	17,582	16,546	16,057	14,074	14,234	14,797	14,609	14,947
White											
All fields.....	826,356	819,477	840,326	892,363	931,603	892,785	877,759	878,018	895,129	888,412	912,956
S&E.....	281,394	272,090	266,862	278,190	297,171	275,819	274,800	272,561	270,416	267,848	276,379
Engineering.....	60,992	56,491	50,081	45,162	44,853	43,766	41,666	40,574	39,067	38,767	39,723
Aerospace.....	NA	NA	NA	NA	NA	1,301	869	877	899	1,058	1,279
Chemical .....	NA	NA	NA	NA	NA	4,417	4,631	4,405	4,062	4,061	3,976
Civil .....	NA	NA	NA	NA	NA	8,646	8,940	8,481	7,003	6,615	6,624
Electrical.....	NA	NA	NA	NA	NA	10,079	9,293	9,174	9,715	9,891	9,975

## Earned bachelor's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Industrial .....	NA	NA	NA	NA	NA	2,220	2,271	2,333	2,385	2,330	2,428
Materials .....	NA	NA	NA	NA	NA	851	813	760	741	708	712
Mechanical .....	NA	NA	NA	NA	NA	11,332	9,919	9,656	9,467	9,541	9,876
Other .....	NA	NA	NA	NA	NA	4,920	4,930	4,888	4,795	4,563	4,853
Science.....	220,402	215,599	216,781	233,028	252,318	232,053	233,134	231,987	231,349	229,081	236,656
Natural sciences.....	107,076	98,344	84,578	80,111	87,401	94,609	100,831	102,066	103,333	102,187	105,430
Agricultural sciences.....	11,233	8,696	7,938	7,704	10,556	12,873	15,246	15,616	15,655	14,950	14,729
Biological sciences .....	31,818	30,549	28,404	30,264	35,080	40,697	45,387	45,912	43,907	41,325	41,288
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	4,012	3,986	3,803	3,561	3,436	3,450
Atmospheric sciences.....	NA	NA	NA	NA	NA	401	390	416	437	395	467
Earth sciences.....	NA	NA	NA	NA	NA	3,430	3,429	3,207	2,959	2,888	2,806
Oceanography.....	NA	NA	NA	NA	NA	181	167	180	165	153	177
Mathematics/computer sciences .....	43,484	42,446	33,998	28,998	27,824	26,087	25,278	25,972	30,114	32,664	36,262
Computer sciences.....	31,321	29,181	21,711	17,349	16,155	15,601	15,846	17,069	21,719	24,491	27,506
Mathematics/statistics .....	12,163	13,265	12,287	11,649	11,669	10,486	9,432	8,903	8,395	8,173	8,756
Physical sciences .....	20,541	16,653	14,238	13,145	13,941	10,940	10,934	10,763	10,096	9,812	9,701
Astronomy.....	NA	NA	NA	NA	NA	132	112	127	131	185	204
Chemistry.....	NA	NA	NA	NA	NA	7,112	7,537	7,370	6,900	6,505	6,268
Physics.....	NA	NA	NA	NA	NA	3,004	2,623	2,652	2,543	2,625	2,742
Other physical sciences.....	NA	NA	NA	NA	NA	692	662	614	522	497	487
Social/behavioral sciences.....	113,326	117,255	132,203	152,917	164,917	137,444	132,303	129,921	128,016	126,894	131,226
Psychology .....	33,959	35,761	40,506	48,134	53,763	55,914	55,346	54,225	52,397	51,562	53,324
Social sciences.....	79,367	81,494	91,697	104,783	111,154	81,530	76,957	75,696	75,619	75,332	77,902
Anthropology.....	NA	NA	NA	NA	NA	4,696	5,225	5,383	5,378	5,222	5,380
Area/ethnic studies.....	2,242	2,554	2,998	3,414	3,759	3,156	3,026	2,987	2,943	2,938	3,076
Economics.....	NA	NA	NA	NA	NA	12,869	11,437	11,599	12,102	12,419	13,374
History of science.....	NA	NA	NA	NA	NA	26	24	33	58	57	60
Linguistics.....	NA	NA	NA	NA	NA	339	359	397	450	499	585
Political science/public administration .....	NA	NA	NA	NA	NA	30,907	26,770	25,624	24,976	24,963	26,162
Sociology .....	NA	NA	NA	NA	NA	16,170	16,661	16,450	16,561	16,105	15,838
Other social sciences.....	NA	NA	NA	NA	NA	13,367	13,455	13,223	13,151	13,129	13,427
Non-S&E.....	544,962	547,387	573,464	614,173	634,432	616,966	602,959	605,457	624,713	620,564	636,577
Engineering technologies.....	16,673	16,541	16,156	14,279	13,245	12,675	10,988	11,044	10,871	10,698	10,885
Asian/Pacific Islander											
All fields.....	25,562	31,921	37,573	41,725	50,587	59,295	67,358	69,988	75,265	75,496	79,149
S&E.....	13,323	16,934	19,138	20,552	24,504	28,604	32,568	34,004	35,553	36,398	37,452
Engineering.....	4,482	5,590	6,075	6,220	6,407	6,785	7,085	7,002	6,854	7,025	7,121
Aerospace.....	NA	NA	NA	NA	NA	159	118	96	98	103	128
Chemical .....	NA	NA	NA	NA	NA	652	874	897	788	702	636
Civil.....	NA	NA	NA	NA	NA	942	1,017	909	646	521	482
Electrical.....	NA	NA	NA	NA	NA	2,769	2,663	2,757	3,143	3,522	3,774
Industrial .....	NA	NA	NA	NA	NA	287	437	369	332	319	356
Materials .....	NA	NA	NA	NA	NA	93	84	119	91	88	85
Mechanical.....	NA	NA	NA	NA	NA	1,249	1,135	1,128	1,002	998	892
Other .....	NA	NA	NA	NA	NA	634	757	727	754	772	768

## Earned bachelor's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Science.....	8,841	11,344	13,063	14,332	18,097	21,819	25,483	27,002	28,699	29,373	30,331
Natural sciences.....	5,809	7,130	7,260	7,595	9,524	12,009	14,212	15,038	16,331	16,564	17,129
Agricultural sciences.....	165	182	144	128	163	282	396	439	454	399	411
Biological sciences.....	1,952	2,565	2,907	3,559	5,103	7,045	8,541	8,869	8,025	7,493	7,209
Earth, atmospheric, and ocean sciences.....	NA	NA	NA	NA	NA	102	95	92	98	86	85
Atmospheric sciences.....	NA	NA	NA	NA	NA	12	7	5	14	14	8
Earth sciences.....	NA	NA	NA	NA	NA	77	77	76	77	64	65
Oceanography.....	NA	NA	NA	NA	NA	13	11	11	7	8	12
Mathematics/computer sciences.....	2,929	3,489	3,287	2,925	3,160	3,335	3,655	4,054	6,292	7,242	8,207
Computer sciences.....	2,044	2,455	2,268	2,010	2,245	2,371	2,803	3,220	5,401	6,326	7,207
Mathematics/statistics.....	885	1,034	1,019	915	915	964	852	834	891	916	1,000
Physical sciences.....	763	894	922	983	1,098	1,245	1,525	1,584	1,462	1,344	1,217
Astronomy.....	NA	NA	NA	NA	NA	13	7	12	9	12	24
Chemistry.....	NA	NA	NA	NA	NA	986	1,280	1,337	1,208	1,126	978
Physics.....	NA	NA	NA	NA	NA	214	204	208	218	184	184
Other physical sciences.....	NA	NA	NA	NA	NA	32	34	27	27	22	31
Social/behavioral sciences.....	3,032	4,214	5,803	6,737	8,573	9,810	11,271	11,964	12,368	12,809	13,202
Psychology.....	845	1,154	1,575	1,885	2,538	3,331	4,067	4,267	4,188	4,150	4,241
Social sciences.....	2,187	3,060	4,228	4,852	6,035	6,479	7,204	7,697	8,180	8,659	8,961
Anthropology.....	NA	NA	NA	NA	NA	259	363	404	340	332	377
Area/ethnic studies.....	137	207	327	345	450	510	574	676	737	714	686
Economics.....	NA	NA	NA	NA	NA	1,995	2,154	2,430	2,774	3,082	3,235
History of science.....	NA	NA	NA	NA	NA	2	4	3	12	15	20
Linguistics.....	NA	NA	NA	NA	NA	51	62	85	72	69	73
Political science/public administration.....	NA	NA	NA	NA	NA	2,088	2,100	2,141	2,077	2,228	2,325
Sociology.....	NA	NA	NA	NA	NA	989	1,228	1,212	1,324	1,300	1,325
Other social sciences.....	NA	NA	NA	NA	NA	585	719	746	844	919	920
Non-S&E.....	12,239	14,987	18,435	21,173	26,083	30,691	34,790	35,984	39,712	39,098	41,697
Engineering technologies.....	542	807	839	768	768	730	474	476	738	672	710
Black											
All fields.....	57,563	55,103	56,837	65,009	76,667	85,287	92,067	95,878	104,212	106,648	111,032
S&E.....	17,040	17,230	17,385	19,987	24,421	26,911	29,825	30,751	32,924	33,290	34,796
Engineering.....	2,039	2,315	2,067	2,229	2,577	2,845	3,077	3,019	3,063	2,884	2,982
Aerospace.....	NA	NA	NA	NA	NA	64	50	35	40	39	43
Chemical.....	NA	NA	NA	NA	NA	305	373	385	383	373	346
Civil.....	NA	NA	NA	NA	NA	326	403	401	403	329	317
Electrical.....	NA	NA	NA	NA	NA	1,048	1,067	1,047	1,049	1,082	1,103
Industrial.....	NA	NA	NA	NA	NA	236	245	262	256	237	256
Materials.....	NA	NA	NA	NA	NA	22	20	32	24	27	32
Mechanical.....	NA	NA	NA	NA	NA	604	642	548	594	515	561
Other.....	NA	NA	NA	NA	NA	240	277	309	314	282	324
Science.....	15,001	14,915	15,318	17,758	21,844	24,066	26,748	27,732	29,861	30,406	31,814
Natural sciences.....	6,009	6,524	6,005	5,834	6,972	7,994	9,049	9,721	10,732	11,272	11,965
Agricultural sciences.....	219	157	143	162	219	253	367	409	450	428	454
Biological sciences.....	2,047	1,890	1,916	2,111	2,739	3,232	4,124	4,553	4,739	4,693	4,634

## Earned bachelor's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	64	57	70	51	56	62
Atmospheric sciences.....	NA	NA	NA	NA	NA	11	8	7	10	2	10
Earth sciences.....	NA	NA	NA	NA	NA	49	41	60	40	52	42
Oceanography .....	NA	NA	NA	NA	NA	4	8	3	1	2	10
Mathematics/computer sciences .....	2,913	3,654	3,249	2,808	3,178	3,475	3,448	3,632	4,402	5,099	5,797
Computer sciences.....	2,143	2,820	2,457	1,997	2,213	2,517	2,432	2,666	3,497	4,291	4,954
Mathematics/statistics .....	770	834	792	811	965	958	1,016	966	905	808	843
Physical sciences .....	830	823	697	753	836	970	1,053	1,057	1,090	996	1,018
Astronomy.....	NA	NA	NA	NA	NA	3	0	2	1	2	3
Chemistry.....	NA	NA	NA	NA	NA	738	861	824	888	827	796
Physics.....	NA	NA	NA	NA	NA	172	148	179	152	133	182
Other physical sciences.....	NA	NA	NA	NA	NA	57	44	52	49	34	37
Social/behavioral sciences.....	8,992	8,391	9,313	11,924	14,872	16,072	17,699	18,011	19,129	19,134	19,849
Psychology .....	2,667	2,451	2,743	3,688	4,618	5,741	6,647	6,852	7,572	7,562	7,747
Social sciences.....	6,325	5,940	6,570	8,236	10,254	10,331	11,052	11,159	11,557	11,572	12,102
Anthropology .....	NA	NA	NA	NA	NA	145	220	234	268	242	253
Area/ethnic studies.....	219	194	233	354	516	607	653	692	738	691	784
Economics.....	NA	NA	NA	NA	NA	1,156	925	979	1,044	1,089	1,221
History of science.....	NA	NA	NA	NA	NA	0	2	0	6	6	4
Linguistics.....	NA	NA	NA	NA	NA	17	8	21	14	24	25
Political science/public administration .....	NA	NA	NA	NA	NA	3,859	3,761	3,638	3,602	3,554	3,737
Sociology .....	NA	NA	NA	NA	NA	3,208	3,851	3,944	4,097	4,200	4,168
Other social sciences.....	NA	NA	NA	NA	NA	1,339	1,632	1,651	1,788	1,766	1,910
Non-S&E.....	40,523	37,873	39,452	45,022	52,246	58,376	62,242	65,127	71,288	73,358	76,236
Engineering technologies .....	1,277	1,269	1,208	1,227	1,132	1,321	1,424	1,370	1,431	1,389	1,430
Hispanic											
All fields .....	36,391	38,196	41,361	49,027	57,845	66,691	74,938	78,125	88,324	89,972	95,104
S&E.....	12,031	12,419	13,327	15,351	18,442	21,359	24,445	25,712	27,984	28,321	29,871
Engineering.....	2,187	2,554	2,561	2,566	2,961	3,651	4,125	4,125	4,075	4,016	4,136
Aerospace.....	NA	NA	NA	NA	NA	93	93	78	67	92	97
Chemical .....	NA	NA	NA	NA	NA	345	379	393	380	341	353
Civil .....	NA	NA	NA	NA	NA	693	874	920	762	742	761
Electrical.....	NA	NA	NA	NA	NA	1,101	1,123	1,070	1,283	1,302	1,411
Industrial .....	NA	NA	NA	NA	NA	302	451	450	391	356	372
Materials .....	NA	NA	NA	NA	NA	26	89	42	38	34	33
Mechanical .....	NA	NA	NA	NA	NA	827	832	866	846	880	819
Other .....	NA	NA	NA	NA	NA	264	284	306	308	269	290
Science.....	9,844	9,865	10,766	12,785	15,481	17,708	20,320	21,587	23,909	24,305	25,735
Natural sciences.....	4,359	4,660	4,417	4,705	5,034	6,120	7,094	7,905	8,844	9,160	9,415
Agricultural sciences.....	250	233	196	213	217	383	559	631	634	607	662
Biological sciences .....	2,069	2,146	2,090	2,264	2,652	3,101	3,795	4,283	4,446	4,547	4,367
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	84	113	118	127	157	136
Atmospheric sciences.....	NA	NA	NA	NA	NA	5	8	8	9	15	10
Earth sciences.....	NA	NA	NA	NA	NA	74	100	98	105	130	109
Oceanography .....	NA	NA	NA	NA	NA	5	5	12	13	12	17

## Earned bachelor's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Mathematics/computer sciences .....	1,380	1,696	1,568	1,695	1,566	1,836	1,887	2,077	2,754	2,979	3,386
Computer sciences.....	1,045	1,375	1,195	1,215	1,096	1,314	1,327	1,473	2,155	2,354	2,714
Mathematics/statistics .....	335	321	373	480	470	522	560	604	599	625	672
Physical sciences .....	660	585	563	533	599	716	740	796	883	870	864
Astronomy.....	NA	NA	NA	NA	NA	6	4	11	7	16	10
Chemistry.....	NA	NA	NA	NA	NA	553	593	640	719	669	666
Physics.....	NA	NA	NA	NA	NA	105	119	117	125	151	157
Other physical sciences.....	NA	NA	NA	NA	NA	52	24	28	32	34	31
Social/behavioral sciences.....	5,485	5,205	6,349	8,080	10,447	11,588	13,226	13,682	15,065	15,145	16,320
Psychology .....	1,734	1,702	2,152	2,746	3,587	4,543	5,282	5,509	6,127	6,178	6,692
Social sciences.....	3,751	3,503	4,197	5,334	6,860	7,045	7,944	8,173	8,938	8,967	9,628
Anthropology .....	NA	NA	NA	NA	NA	308	445	397	462	465	494
Area/ethnic studies.....	168	144	169	259	428	476	570	678	659	648	688
Economics.....	NA	NA	NA	NA	NA	844	829	851	976	1,030	1,068
History of science.....	NA	NA	NA	NA	NA	0	1	2	3	5	7
Linguistics.....	NA	NA	NA	NA	NA	40	24	39	42	45	39
Political science/public administration .....	NA	NA	NA	NA	NA	2,866	2,912	2,828	2,975	2,925	3,135
Sociology .....	NA	NA	NA	NA	NA	1,567	1,908	2,081	2,317	2,291	2,440
Other social sciences.....	NA	NA	NA	NA	NA	944	1,255	1,297	1,504	1,558	1,757
Non-S&E.....	24,360	25,777	28,034	33,676	39,403	45,332	50,493	52,413	60,340	61,651	65,233
Engineering technologies.....	525	664	634	731	853	884	723	739	1,068	1,108	1,112
American Indian/Alaska Native											
All fields.....	4,246	3,866	3,967	4,486	5,574	6,454	7,238	7,706	8,431	8,664	8,668
S&E.....	1,384	1,290	1,238	1,344	1,819	1,995	2,298	2,392	2,611	2,796	2,642
Engineering.....	209	210	177	158	176	221	263	254	328	256	308
Aerospace.....	NA	NA	NA	NA	NA	3	3	10	7	8	17
Chemical .....	NA	NA	NA	NA	NA	31	29	31	42	31	33
Civil .....	NA	NA	NA	NA	NA	58	71	62	84	65	67
Electrical.....	NA	NA	NA	NA	NA	43	50	53	81	56	70
Industrial .....	NA	NA	NA	NA	NA	4	19	15	23	17	21
Materials .....	NA	NA	NA	NA	NA	2	6	3	5	4	6
Mechanical .....	NA	NA	NA	NA	NA	55	45	47	53	51	61
Other .....	NA	NA	NA	NA	NA	25	40	33	33	24	33
Science.....	1,175	1,080	1,061	1,186	1,643	1,774	2,035	2,138	2,283	2,540	2,334
Natural sciences.....	511	423	408	421	504	675	743	833	918	1,076	963
Agricultural sciences.....	54	43	58	53	64	124	146	151	190	215	158
Biological sciences .....	161	144	145	176	211	285	341	399	379	431	410
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	26	31	25	43	35	26
Atmospheric sciences.....	NA	NA	NA	NA	NA	0	1	0	4	5	1
Earth sciences.....	NA	NA	NA	NA	NA	25	26	25	35	29	23
Oceanography .....	NA	NA	NA	NA	NA	1	4	0	4	1	2
Mathematics/computer sciences .....	198	164	143	123	136	168	156	177	241	322	286
Computer sciences.....	139	112	90	80	81	110	99	112	172	271	229
Mathematics/statistics .....	59	52	53	43	55	58	57	65	69	51	57

## Earned bachelor's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Physical sciences .....	98	72	62	69	93	72	69	81	65	73	83
Astronomy .....	NA	NA	NA	NA	NA	0	0	0	2	2	2
Chemistry .....	NA	NA	NA	NA	NA	57	54	64	49	47	57
Physics .....	NA	NA	NA	NA	NA	13	11	14	12	19	21
Other physical sciences .....	NA	NA	NA	NA	NA	2	4	3	2	5	3
Social/behavioral sciences .....	664	657	653	765	1,139	1,099	1,292	1,305	1,365	1,464	1,371
Psychology .....	201	180	208	235	335	407	496	515	518	561	542
Social sciences .....	463	477	445	530	804	692	796	790	847	903	829
Anthropology .....	NA	NA	NA	NA	NA	69	86	80	89	93	85
Area/ethnic studies .....	16	28	25	24	50	40	62	75	80	106	121
Economics .....	NA	NA	NA	NA	NA	73	68	69	71	68	65
History of science .....	NA	NA	NA	NA	NA	0	0	0	1	0	0
Linguistics .....	NA	NA	NA	NA	NA	6	5	10	10	2	2
Political science/public administration .....	NA	NA	NA	NA	NA	218	253	215	231	234	241
Sociology .....	NA	NA	NA	NA	NA	176	192	197	220	225	184
Other social sciences .....	NA	NA	NA	NA	NA	110	130	144	145	175	131
Non-S&E .....	2,862	2,576	2,729	3,142	3,755	4,459	4,940	5,314	5,820	5,868	6,026
Engineering technologies .....	103	78	105	75	111	115	101	105	109	128	101
Other/unknown race/ethnicity											
All fields .....	11,501	26,377	23,650	25,730	24,631	26,912	28,455	30,977	42,965	48,977	57,697
S&E .....	3,727	9,430	7,158	8,637	8,276	8,775	9,809	10,489	13,950	15,839	18,148
Engineering .....	1,472	1,374	914	1,269	1,191	1,293	1,339	1,297	1,616	1,891	2,102
Aerospace .....	NA	NA	NA	NA	NA	35	28	14	35	50	61
Chemical .....	NA	NA	NA	NA	NA	117	120	103	119	156	155
Civil .....	NA	NA	NA	NA	NA	227	231	239	239	265	269
Electrical .....	NA	NA	NA	NA	NA	422	368	384	565	676	775
Industrial .....	NA	NA	NA	NA	NA	46	94	73	69	84	101
Materials .....	NA	NA	NA	NA	NA	22	23	18	36	27	36
Mechanical .....	NA	NA	NA	NA	NA	293	325	321	358	431	485
Other .....	NA	NA	NA	NA	NA	131	150	145	195	202	220
Science .....	2,255	8,056	6,244	7,368	7,085	7,482	8,470	9,192	12,334	13,948	16,046
Natural sciences .....	1,283	3,271	2,260	2,373	2,221	2,904	3,483	3,897	5,163	5,957	6,969
Agricultural sciences .....	60	127	50	113	259	407	394	428	603	620	684
Biological sciences .....	443	891	614	914	875	1,247	1,489	1,673	2,032	2,163	2,403
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	117	106	131	121	149	166
Atmospheric sciences .....	NA	NA	NA	NA	NA	11	6	3	8	23	23
Earth sciences .....	NA	NA	NA	NA	NA	106	97	124	110	125	140
Oceanography .....	NA	NA	NA	NA	NA	0	3	4	3	1	3
Mathematics/computer sciences .....	605	1,760	1,354	1,030	727	829	1,144	1,266	1,955	2,515	3,128
Computer sciences .....	313	1,406	1,107	722	483	559	871	997	1,558	2,059	2,637
Mathematics/statistics .....	292	354	247	308	244	270	273	269	397	456	491
Physical sciences .....	175	493	242	316	360	304	350	399	452	510	588
Astronomy .....	NA	NA	NA	NA	NA	5	9	5	6	10	17
Chemistry .....	NA	NA	NA	NA	NA	174	205	253	282	313	340

## Earned bachelor's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Physics.....	NA	NA	NA	NA	NA	105	112	107	152	163	198
Other physical sciences.....	NA	NA	NA	NA	NA	20	24	34	12	24	33
Social/behavioral sciences.....	972	4,785	3,984	4,995	4,864	4,578	4,987	5,295	7,171	7,991	9,077
Psychology.....	288	1,453	1,259	1,514	1,580	1,723	1,847	1,919	2,588	2,872	3,410
Social sciences.....	684	3,332	2,725	3,481	3,284	2,855	3,140	3,376	4,583	5,119	5,667
Anthropology.....	NA	NA	NA	NA	NA	214	247	294	404	424	495
Area/ethnic studies.....	18	119	72	95	145	162	174	156	282	297	329
Economics.....	NA	NA	NA	NA	NA	456	464	533	742	865	960
History of science.....	NA	NA	NA	NA	NA	0	0	0	11	15	10
Linguistics.....	NA	NA	NA	NA	NA	31	33	28	56	41	56
Political science/public administration.....	NA	NA	NA	NA	NA	952	959	1,029	1,424	1,600	1,811
Sociology.....	NA	NA	NA	NA	NA	532	611	691	867	984	1,068
Other social sciences.....	NA	NA	NA	NA	NA	508	652	645	797	893	938
Non-S&E.....	7,774	16,947	16,492	17,093	16,355	18,137	18,646	20,488	29,015	33,138	39,549
Engineering technologies.....	136	232	497	502	437	332	364	500	580	614	709
Temporary resident											
All fields.....	29,258	28,592	26,457	29,657	32,371	37,012	38,774	38,887	38,795	39,479	41,124
S&E.....	14,071	13,677	12,323	12,724	13,802	14,685	14,737	14,709	15,184	15,714	16,323
Engineering.....	6,190	5,889	5,072	4,582	4,505	4,810	4,797	4,643	4,533	4,419	4,267
Aerospace.....	NA	NA	NA	NA	NA	116	129	137	121	148	122
Chemical.....	NA	NA	NA	NA	NA	524	571	507	445	424	447
Civil.....	NA	NA	NA	NA	NA	437	474	510	459	412	371
Electrical.....	NA	NA	NA	NA	NA	2,117	1,870	1,837	1,836	1,842	1,869
Industrial.....	NA	NA	NA	NA	NA	424	480	486	481	475	442
Materials.....	NA	NA	NA	NA	NA	30	28	33	37	42	29
Mechanical.....	NA	NA	NA	NA	NA	781	908	797	789	744	683
Other.....	NA	NA	NA	NA	NA	381	337	336	365	332	304
Science.....	7,881	7,788	7,251	8,142	9,297	9,875	9,940	10,066	10,651	11,295	12,056
Natural sciences.....	5,011	5,019	4,422	4,556	5,086	5,154	4,934	4,981	5,577	6,110	6,665
Agricultural sciences.....	437	289	266	270	349	258	253	293	258	248	262
Biological sciences.....	915	862	873	1,063	1,217	1,283	1,462	1,423	1,376	1,437	1,457
Earth, atmospheric, and ocean sciences.....	NA	NA	NA	NA	NA	73	78	82	46	49	59
Atmospheric sciences.....	NA	NA	NA	NA	NA	4	11	4	8	2	6
Earth sciences.....	NA	NA	NA	NA	NA	59	60	75	33	46	49
Oceanography.....	NA	NA	NA	NA	NA	10	7	3	5	1	4
Mathematics/computer sciences.....	2,879	3,233	2,678	2,615	2,756	2,890	2,548	2,590	3,365	3,818	4,342
Computer sciences.....	2,116	2,578	2,135	2,037	2,204	2,297	2,015	2,137	2,886	3,392	3,888
Mathematics/statistics.....	763	655	543	578	552	593	533	453	479	426	454
Physical sciences.....	780	635	605	608	764	650	593	593	532	558	545
Astronomy.....	NA	NA	NA	NA	NA	10	8	11	4	13	16
Chemistry.....	NA	NA	NA	NA	NA	396	396	385	344	335	343
Physics.....	NA	NA	NA	NA	NA	223	176	178	160	182	167
Other physical sciences.....	NA	NA	NA	NA	NA	21	13	19	24	28	19

**Earned bachelor's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002**

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Social/behavioral sciences .....	2,870	2,769	2,829	3,586	4,211	4,721	5,006	5,085	5,074	5,185	5,391
Psychology .....	543	494	511	691	830	942	1,049	1,170	1,264	1,283	1,367
Social sciences .....	2,327	2,275	2,318	2,895	3,381	3,779	3,957	3,915	3,810	3,902	4,024
Anthropology .....	NA	NA	NA	NA	NA	115	173	102	116	120	114
Area/ethnic studies .....	72	67	126	134	136	225	198	177	178	167	160
Economics .....	NA	NA	NA	NA	NA	1,690	1,824	1,783	1,691	1,824	1,904
History of science .....	NA	NA	NA	NA	NA	1	0	1	1	3	2
Linguistics .....	NA	NA	NA	NA	NA	80	86	100	83	77	81
Political science/public administration .....	NA	NA	NA	NA	NA	1,088	1,052	1,179	1,154	1,147	1,162
Sociology .....	NA	NA	NA	NA	NA	332	299	309	299	258	295
Other social sciences .....	NA	NA	NA	NA	NA	248	325	264	288	306	306
Non-S&E .....	15,187	14,915	14,134	16,933	18,569	22,327	24,037	24,178	23,611	23,765	24,801
Engineering technologies .....	1,277	986	659	712	441	550	557	591	441	518	459

NA = not available

NOTES: Data on race/ethnicity collected on broad fields of study only until 1994. Field taxonomies for data through 1994 do not exactly match field taxonomies used in tables by sex, or race/ethnicity data after 1994. Primary difference between taxonomies: history included in social sciences before 1995 but included in non-S&E from 1995 on. Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1983 or 1999.

SOURCES: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey; and National Science Foundation, Division of Science Resources Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

*Science and Engineering Indicators 2006*

## Earned master's degrees, by field and sex: Selected years, 1983–2002

Field and sex	1983	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Both sexes												
All fields .....	290,931	287,213	290,532	311,050	338,498	370,973	399,428	420,954	431,871	456,260	466,645	481,132
S&E .....	67,733	70,578	72,603	76,425	78,368	86,425	94,309	93,485	93,918	95,683	98,986	99,173
Engineering .....	18,886	20,972	22,070	23,743	24,013	27,664	28,630	25,874	26,138	25,736	26,523	26,266
Aerospace .....	491	605	737	855	941	1,047	821	625	584	560	611	682
Chemical .....	1,545	1,814	1,386	1,321	1,025	1,220	1,369	1,345	1,372	1,352	1,368	1,267
Civil .....	3,504	3,542	3,267	3,296	3,404	4,438	5,168	4,880	4,736	4,140	4,013	3,947
Electrical .....	4,819	5,649	6,895	7,849	7,942	8,828	8,743	7,341	7,971	8,339	8,630	8,279
Industrial .....	1,432	1,463	1,728	1,823	2,039	2,745	2,873	2,935	3,109	3,048	3,401	3,388
Materials .....	672	713	765	815	787	849	852	724	698	759	709	630
Mechanical .....	2,683	3,272	3,380	3,703	3,680	4,169	4,368	3,756	3,551	3,378	3,472	3,519
Other .....	3,740	3,914	3,912	4,081	4,195	4,368	4,436	4,268	4,117	4,160	4,319	4,554
Science .....	48,847	49,606	50,533	52,682	54,355	58,761	65,679	67,611	67,780	69,947	72,463	72,907
Natural sciences .....	22,557	23,977	25,208	26,047	25,638	27,574	29,288	30,185	30,902	32,864	34,960	35,373
Agricultural sciences .....	3,395	3,113	2,776	2,570	2,600	3,272	3,574	3,927	3,862	3,858	3,752	4,019
Biological sciences .....	5,741	5,095	4,999	4,953	4,806	4,840	5,495	6,594	6,368	6,325	6,487	6,334
Earth, atmospheric, and ocean sciences .....	1,959	2,160	2,051	1,819	1,499	1,397	1,483	1,435	1,426	1,345	1,363	1,406
Atmospheric sciences .....	183	236	216	206	172	202	203	177	199	156	140	141
Earth sciences .....	1,673	1,806	1,729	1,511	1,195	1,052	1,142	1,145	1,105	1,104	1,121	1,151
Oceanography .....	103	118	106	102	132	143	138	113	122	85	102	114
Mathematics/computer sciences .....	8,177	10,004	11,808	12,829	12,956	14,100	14,495	14,088	15,277	17,824	19,621	19,990
Computer sciences .....	5,321	7,101	8,481	9,399	9,324	10,349	10,563	10,489	11,752	14,529	16,341	16,582
Mathematics/statistics .....	2,856	2,903	3,327	3,430	3,632	3,751	3,932	3,599	3,525	3,295	3,280	3,408
Physical sciences .....	3,285	3,605	3,574	3,876	3,777	3,965	4,241	4,141	3,969	3,512	3,737	3,624
Astronomy .....	68	91	71	100	98	135	119	93	101	102	93	112
Chemistry .....	1,632	1,734	1,750	1,800	1,676	1,853	2,105	2,268	2,173	1,908	2,009	1,866
Physics .....	1,370	1,523	1,543	1,739	1,725	1,781	1,826	1,497	1,401	1,244	1,376	1,353
Other physical sciences .....	215	257	210	237	278	196	191	283	294	258	259	293
Social/behavioral sciences .....	26,290	25,629	25,325	26,635	28,717	31,187	36,391	37,426	36,878	37,083	37,503	37,534
Psychology .....	8,439	8,481	8,165	8,652	9,802	10,412	13,132	13,633	13,146	13,708	14,335	14,041
Social sciences .....	17,851	17,148	17,160	17,983	18,915	20,775	23,259	23,793	23,732	23,375	23,168	23,493
Anthropology .....	815	771	746	725	851	927	1,053	1,111	1,098	950	1,092	1,017
Area/ethnic studies .....	834	884	876	990	1,262	1,501	1,584	1,587	1,550	1,529	1,515	1,497
Economics .....	2,568	2,532	2,321	2,333	2,411	2,725	2,838	2,804	2,843	2,515	2,492	2,651
History of science .....	0	0	0	0	0	9	13	18	22	24	26	35
Linguistics .....	598	633	542	579	606	610	603	642	568	553	552	520
Political science/public administration .....	9,715	9,481	9,933	10,314	10,392	11,310	12,802	13,368	13,151	13,035	12,929	13,183
Sociology .....	1,157	1,045	970	1,169	1,293	1,564	1,790	1,752	1,774	2,036	1,901	1,957
Other social sciences .....	2,164	1,802	1,772	1,873	2,100	2,129	2,576	2,511	2,726	2,733	2,661	2,633
Non-S&E .....	223,198	216,635	217,929	234,625	260,130	284,548	305,119	327,469	337,953	360,577	367,659	381,959
Male												
All fields .....	145,114	143,716	141,655	149,399	156,895	169,753	179,198	181,457	185,061	191,234	193,006	198,097
S&E .....	46,734	48,247	48,759	50,845	50,441	55,454	58,518	55,223	55,335	54,213	55,593	55,701
Engineering .....	17,131	18,728	19,300	20,661	20,656	23,570	23,998	21,179	20,975	20,396	20,895	20,692
Aerospace .....	454	574	682	791	855	941	722	550	503	484	521	557

## Earned master's degrees, by field and sex: Selected years, 1983–2002

Field and sex	1983	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Chemical .....	1,369	1,529	1,143	1,092	852	996	1,063	1,013	1,028	1,008	1,016	932
Civil .....	3,122	3,128	2,792	2,851	2,864	3,607	4,123	3,781	3,582	3,065	2,952	2,884
Electrical.....	4,484	5,154	6,178	6,933	7,008	7,777	7,539	6,197	6,595	6,781	6,957	6,718
Industrial.....	1,226	1,236	1,409	1,465	1,603	2,190	2,361	2,331	2,433	2,400	2,612	2,593
Materials .....	567	600	600	634	607	682	668	550	528	558	536	459
Mechanical.....	2,517	3,044	3,133	3,377	3,320	3,769	3,918	3,337	3,090	2,923	3,024	3,051
Other .....	3,392	3,463	3,363	3,518	3,547	3,608	3,604	3,420	3,216	3,177	3,277	3,498
Science.....	29,603	29,519	29,459	30,184	29,785	31,884	34,520	34,044	34,360	33,817	34,698	35,009
Natural sciences .....	15,502	16,246	16,663	17,216	16,503	17,954	18,860	18,684	19,021	19,441	20,606	20,839
Agricultural sciences.....	2,467	2,215	1,882	1,719	1,660	2,007	2,103	2,232	2,153	2,039	1,915	2,022
Biological sciences .....	3,236	2,666	2,555	2,491	2,315	2,374	2,637	3,076	3,014	2,815	2,732	2,665
Earth, atmospheric, and ocean sciences .....	1,515	1,639	1,531	1,337	1,116	1,006	1,032	948	932	832	799	834
Atmospheric sciences.....	159	196	187	174	138	161	152	135	147	119	100	95
Earth sciences.....	1,279	1,361	1,272	1,099	887	756	789	752	708	670	649	678
Oceanography .....	77	82	72	64	91	89	91	61	77	43	50	61
Mathematics/computer sciences .....	5,684	6,951	8,011	8,833	8,709	9,773	10,130	9,620	10,393	11,458	12,724	13,020
Computer sciences.....	3,813	5,064	5,985	6,773	6,563	7,554	7,777	7,510	8,338	9,661	10,833	11,083
Mathematics .....	1,871	1,887	2,026	2,060	2,146	2,219	2,353	2,110	2,055	1,797	1,891	1,937
Physical sciences .....	2,600	2,775	2,684	2,836	2,703	2,794	2,958	2,808	2,529	2,297	2,436	2,298
Astronomy.....	56	76	55	85	79	106	88	61	71	77	57	85
Chemistry.....	1,167	1,166	1,181	1,131	993	1,110	1,220	1,341	1,175	1,085	1,184	1,014
Physics.....	1,208	1,333	1,300	1,448	1,441	1,463	1,535	1,242	1,146	1,000	1,090	1,067
Other physical sciences.....	169	200	148	172	190	115	115	164	137	135	105	132
Social/behavioral sciences.....	14,101	13,273	12,796	12,968	13,282	13,930	15,660	15,360	15,339	14,376	14,092	14,170
Psychology .....	3,254	3,064	2,838	2,814	2,994	2,928	3,735	3,715	3,606	3,415	3,477	3,369
Social sciences.....	10,847	10,209	9,958	10,154	10,288	11,002	11,925	11,645	11,733	10,961	10,615	10,801
Anthropology .....	372	325	305	290	350	393	385	399	412	363	403	375
Area/ethnic studies.....	415	467	467	503	639	740	766	742	708	650	619	618
Economics.....	1,957	1,920	1,739	1,699	1,711	1,909	1,944	1,851	1,899	1,563	1,519	1,601
History of science.....	0	0	0	0	0	5	9	11	15	18	16	18
Linguistics.....	241	224	196	211	218	218	187	224	179	146	172	160
Political science/public administration .....	6,109	5,785	5,830	5,917	5,752	6,069	6,678	6,677	6,585	6,315	6,088	6,205
Sociology.....	515	470	425	507	514	604	678	610	656	649	643	642
Other social sciences.....	1,238	1,018	996	1,027	1,104	1,064	1,278	1,131	1,279	1,257	1,155	1,182
Non-S&E .....	98,380	95,469	92,896	98,554	106,454	114,299	120,680	126,234	129,726	137,021	137,413	142,396
Female												
All fields .....	145,817	143,497	148,877	161,651	181,603	201,220	220,230	239,497	246,810	265,026	273,639	283,035
S&E.....	20,999	22,331	23,844	25,580	27,927	30,971	35,791	38,262	38,583	41,470	43,393	43,472
Engineering.....	1,755	2,244	2,770	3,082	3,357	4,094	4,632	4,695	5,163	5,340	5,628	5,574
Aerospace.....	37	31	55	64	86	106	99	75	81	76	90	125
Chemical .....	176	285	243	229	173	224	306	332	344	344	352	335
Civil .....	382	414	475	445	540	831	1,045	1,099	1,154	1,075	1,061	1,063
Electrical.....	335	495	717	916	934	1,051	1,204	1,144	1,376	1,558	1,673	1,561
Industrial.....	206	227	319	358	436	555	512	604	676	648	789	795
Materials .....	105	113	165	181	180	167	184	174	170	201	173	171

## Earned master's degrees, by field and sex: Selected years, 1983–2002

Field and sex	1983	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Mechanical .....	166	228	247	326	360	400	450	419	461	455	448	468
Other .....	348	451	549	563	648	760	832	848	901	983	1,042	1,056
Science.....	19,244	20,087	21,074	22,498	24,570	26,877	31,159	33,567	33,420	36,130	37,765	37,898
Natural sciences.....	7,055	7,731	8,545	8,831	9,135	9,620	10,428	11,501	11,881	13,423	14,354	14,534
Agricultural sciences.....	928	898	894	851	940	1,265	1,471	1,695	1,709	1,819	1,837	1,997
Biological sciences.....	2,505	2,429	2,444	2,462	2,491	2,466	2,858	3,518	3,354	3,510	3,755	3,669
Earth, atmospheric, and ocean sciences .....	444	521	520	482	383	391	451	487	494	513	564	572
Atmospheric sciences.....	24	40	29	32	34	41	51	42	52	37	40	46
Earth sciences.....	394	445	457	412	308	296	353	393	397	434	472	473
Oceanography .....	26	36	34	38	41	54	47	52	45	42	52	53
Mathematics/computer sciences .....	2,493	3,053	3,797	3,996	4,247	4,327	4,365	4,468	4,884	6,366	6,897	6,970
Computer sciences.....	1,508	2,037	2,496	2,626	2,761	2,795	2,786	2,979	3,414	4,868	5,508	5,499
Mathematics/statistics.....	985	1,016	1,301	1,370	1,486	1,532	1,579	1,489	1,470	1,498	1,389	1,471
Physical sciences .....	685	830	890	1,040	1,074	1,171	1,283	1,333	1,440	1,215	1,301	1,326
Astronomy.....	12	15	16	15	19	29	31	32	30	25	36	27
Chemistry.....	465	568	569	669	683	743	885	927	998	823	825	852
Physics.....	162	190	243	291	284	318	291	255	255	244	286	286
Other physical sciences.....	46	57	62	65	88	81	76	119	157	123	154	161
Social/behavioral sciences.....	12,189	12,356	12,529	13,667	15,435	17,257	20,731	22,066	21,539	22,707	23,411	23,364
Psychology .....	5,185	5,417	5,327	5,838	6,808	7,484	9,397	9,918	9,540	10,293	10,858	10,672
Social sciences.....	7,004	6,939	7,202	7,829	8,627	9,773	11,334	12,148	11,999	12,414	12,553	12,692
Anthropology .....	443	446	441	435	501	534	668	712	686	587	689	642
Area/ethnic studies.....	419	417	409	487	623	761	818	845	842	879	896	879
Economics.....	611	612	582	634	700	816	894	953	944	952	973	1,050
History of science.....	0	0	0	0	0	4	4	7	7	6	10	17
Linguistics.....	357	409	346	368	388	392	416	418	389	407	380	360
Political science/public administration .....	3,606	3,696	4,103	4,397	4,640	5,241	6,124	6,691	6,566	6,720	6,841	6,978
Sociology.....	642	575	545	662	779	960	1,112	1,142	1,118	1,387	1,258	1,315
Other social sciences.....	926	784	776	846	996	1,065	1,298	1,380	1,447	1,476	1,506	1,451
Non-S&E.....	124,818	121,166	125,033	136,071	153,676	170,249	184,439	201,235	208,227	223,556	230,246	239,563

SOURCES: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey; and National Science Foundation, Division of Science Resources Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

## Earned master's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
All races/ethnicities and citizenships											
All fields .....	287,213	290,532	311,050	338,498	370,973	399,428	420,954	431,871	456,260	466,645	481,132
S&E.....	64,726	66,774	70,333	72,828	81,415	94,309	93,485	93,918	95,683	98,986	99,173
Engineering.....	20,935	22,057	23,735	24,007	27,658	28,630	25,874	26,138	25,736	26,523	26,266
Aerospace.....	NA	NA	NA	NA	NA	821	625	584	560	611	682
Chemical.....	NA	NA	NA	NA	NA	1,369	1,345	1,372	1,352	1,368	1,267
Civil.....	NA	NA	NA	NA	NA	5,168	4,880	4,736	4,140	4,013	3,947
Electrical.....	NA	NA	NA	NA	NA	8,743	7,341	7,971	8,339	8,630	8,279
Industrial.....	NA	NA	NA	NA	NA	2,873	2,935	3,109	3,048	3,401	3,388
Materials.....	NA	NA	NA	NA	NA	852	724	698	759	709	630
Mechanical.....	NA	NA	NA	NA	NA	4,368	3,756	3,551	3,378	3,472	3,519
Other.....	NA	NA	NA	NA	NA	4,436	4,268	4,117	4,160	4,319	4,554
Science.....	43,791	44,717	46,598	48,821	53,757	65,679	67,611	67,780	69,947	72,463	72,907
Natural sciences.....	24,034	25,269	26,089	25,669	27,713	29,288	30,185	30,902	32,864	34,960	35,373
Agricultural sciences.....	3,152	2,824	2,604	2,625	3,299	3,574	3,927	3,862	3,858	3,752	4,019
Biological sciences.....	5,091	4,999	4,953	4,806	4,798	5,495	6,594	6,368	6,325	6,487	6,334
Earth, atmospheric, and ocean sciences.....	NA	NA	NA	NA	NA	1,483	1,435	1,426	1,345	1,363	1,406
Atmospheric sciences.....	NA	NA	NA	NA	NA	203	177	199	156	140	141
Earth sciences.....	NA	NA	NA	NA	NA	1,142	1,145	1,105	1,104	1,121	1,151
Oceanography.....	NA	NA	NA	NA	NA	138	113	122	85	102	114
Mathematics/computer sciences.....	9,989	11,808	12,829	12,956	14,251	14,495	14,088	15,277	17,824	19,621	19,990
Computer sciences.....	7,101	8,481	9,399	9,324	10,167	10,563	10,489	11,752	14,529	16,341	16,582
Mathematics/statistics.....	2,888	3,327	3,430	3,632	4,084	3,932	3,599	3,525	3,295	3,280	3,408
Physical sciences.....	5,802	5,638	5,703	5,282	5,365	4,241	4,141	3,969	3,512	3,737	3,624
Astronomy.....	NA	NA	NA	NA	NA	119	93	101	102	93	112
Chemistry.....	NA	NA	NA	NA	NA	2,105	2,268	2,173	1,908	2,009	1,866
Physics.....	NA	NA	NA	NA	NA	1,826	1,497	1,401	1,244	1,376	1,353
Other physical sciences.....	NA	NA	NA	NA	NA	191	283	294	258	259	293
Social/behavioral sciences.....	19,757	19,448	20,509	23,152	26,044	36,391	37,426	36,878	37,083	37,503	37,534
Psychology.....	8,481	8,165	8,652	9,802	11,020	13,132	13,633	13,146	13,708	14,335	14,041
Social sciences.....	11,276	11,283	11,857	13,350	15,024	23,259	23,793	23,732	23,375	23,168	23,493
Anthropology.....	NA	NA	NA	NA	NA	1,053	1,111	1,098	950	1,092	1,017
Area/ethnic studies.....	884	876	990	1,262	1,534	1,584	1,587	1,550	1,529	1,515	1,497
Economics.....	NA	NA	NA	NA	NA	2,838	2,804	2,843	2,515	2,492	2,651
History of science.....	NA	NA	NA	NA	NA	13	18	22	24	26	35
Linguistics.....	NA	NA	NA	NA	NA	603	642	568	553	552	520
Political science/public administration.....	NA	NA	NA	NA	NA	12,802	13,368	13,151	13,035	12,929	13,183
Sociology.....	NA	NA	NA	NA	NA	1,790	1,752	1,774	2,036	1,901	1,957
Other social sciences.....	NA	NA	NA	NA	NA	2,576	2,511	2,726	2,733	2,661	2,633
Non-S&E.....	222,487	223,758	240,717	265,670	289,558	305,119	327,469	337,953	360,577	367,659	381,959
U.S. citizen/permanent resident											
All fields.....	260,261	262,268	278,927	300,887	326,864	350,672	371,477	379,666	400,689	405,455	417,821
S&E.....	52,220	53,729	55,190	55,779	61,265	72,092	72,220	71,295	70,933	71,564	71,623
Engineering.....	15,241	16,276	16,988	16,487	18,539	18,931	17,238	16,977	15,913	15,522	15,463
Aerospace.....	NA	NA	NA	NA	NA	615	441	374	339	360	395

## Earned master's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Chemical .....	NA	NA	NA	NA	NA	685	748	780	721	726	662
Civil .....	NA	NA	NA	NA	NA	3,712	3,664	3,547	3,048	2,780	2,593
Electrical.....	NA	NA	NA	NA	NA	5,375	4,265	4,452	4,231	3,959	4,036
Industrial.....	NA	NA	NA	NA	NA	1,874	1,872	2,004	1,872	1,992	1,958
Materials .....	NA	NA	NA	NA	NA	535	472	447	483	409	386
Mechanical.....	NA	NA	NA	NA	NA	2,939	2,602	2,423	2,212	2,222	2,214
Other .....	NA	NA	NA	NA	NA	3,196	3,174	2,950	3,007	3,074	3,219
Science.....	36,979	37,453	38,202	39,292	42,726	53,161	54,982	54,318	55,020	56,042	56,160
Natural sciences.....	19,462	20,234	20,167	18,935	19,651	20,986	21,994	22,086	22,589	23,230	23,721
Agricultural sciences.....	2,546	2,257	1,974	2,022	2,605	2,921	3,269	3,264	3,342	3,281	3,540
Biological sciences.....	4,617	4,490	4,317	4,057	3,949	4,610	5,671	5,468	5,575	5,614	5,529
Earth, atmospheric, and ocean sciences.....	NA	NA	NA	NA	NA	1,198	1,198	1,218	1,150	1,191	1,207
Atmospheric sciences.....	NA	NA	NA	NA	NA	151	143	152	118	116	113
Earth sciences.....	NA	NA	NA	NA	NA	938	959	972	962	987	1,001
Oceanography.....	NA	NA	NA	NA	NA	109	96	94	70	88	93
Mathematics/computer sciences.....	7,595	8,905	9,411	9,078	9,334	9,483	9,122	9,456	10,150	10,646	11,009
Computer sciences.....	5,392	6,414	6,957	6,505	6,388	6,667	6,516	6,957	7,966	8,596	8,895
Mathematics/statistics.....	2,203	2,491	2,454	2,573	2,946	2,816	2,606	2,499	2,184	2,050	2,114
Physical sciences.....	4,704	4,582	4,465	3,778	3,763	2,774	2,734	2,680	2,372	2,498	2,436
Astronomy.....	NA	NA	NA	NA	NA	94	74	82	80	65	77
Chemistry.....	NA	NA	NA	NA	NA	1,366	1,501	1,446	1,309	1,388	1,260
Physics.....	NA	NA	NA	NA	NA	1,144	938	882	761	808	829
Other physical sciences.....	NA	NA	NA	NA	NA	170	221	270	222	237	270
Social/behavioral sciences.....	17,517	17,219	18,035	20,357	23,075	32,175	32,988	32,232	32,431	32,812	32,439
Psychology.....	8,185	7,945	8,393	9,485	10,688	12,659	13,231	12,686	13,241	13,871	13,562
Social sciences.....	9,332	9,274	9,642	10,872	12,387	19,516	19,757	19,546	19,190	18,941	18,877
Anthropology.....	NA	NA	NA	NA	NA	958	1,020	1,012	864	1,004	918
Area/ethnic studies.....	765	764	836	1,074	1,355	1,401	1,397	1,340	1,300	1,287	1,269
Economics.....	NA	NA	NA	NA	NA	1,561	1,456	1,440	1,209	1,172	1,191
History of science.....	NA	NA	NA	NA	NA	13	16	16	22	21	33
Linguistics.....	NA	NA	NA	NA	NA	412	473	420	380	394	351
Political science/public administration.....	NA	NA	NA	NA	NA	11,217	11,517	11,220	11,111	10,946	11,037
Sociology.....	NA	NA	NA	NA	NA	1,614	1,580	1,622	1,845	1,744	1,766
Other social sciences.....	NA	NA	NA	NA	NA	2,340	2,298	2,476	2,459	2,373	2,312
Non-S&E.....	208,041	208,539	223,737	245,108	265,599	278,580	299,257	308,371	329,756	333,891	346,198
White											
All fields.....	223,649	216,807	230,322	247,524	265,668	277,437	288,353	291,962	297,226	293,390	296,978
S&E.....	43,982	43,360	43,945	44,513	47,975	54,610	53,769	52,328	49,850	48,792	48,410
Engineering.....	12,186	12,837	12,832	12,635	13,920	13,831	12,492	12,085	11,020	10,466	10,404
Aerospace.....	NA	NA	NA	NA	NA	451	345	297	284	277	310
Chemical.....	NA	NA	NA	NA	NA	494	541	537	501	487	435
Civil.....	NA	NA	NA	NA	NA	2,913	2,842	2,777	2,337	2,130	1,931
Electrical.....	NA	NA	NA	NA	NA	3,473	2,737	2,710	2,474	2,244	2,308
Industrial.....	NA	NA	NA	NA	NA	1,342	1,360	1,406	1,238	1,290	1,261
Materials.....	NA	NA	NA	NA	NA	447	350	356	373	295	287

## Earned master's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Mechanical.....	NA	NA	NA	NA	NA	2,237	1,967	1,815	1,630	1,558	1,584
Other.....	NA	NA	NA	NA	NA	2,474	2,350	2,187	2,183	2,185	2,288
Science.....	31,796	30,523	31,113	31,878	34,055	40,779	41,277	40,243	38,830	38,326	38,006
Natural sciences.....	16,735	16,352	16,080	15,005	15,322	15,836	16,486	16,340	15,943	15,879	16,176
Agricultural sciences.....	2,345	2,044	1,817	1,818	2,282	2,447	2,809	2,827	2,864	2,782	2,951
Biological sciences.....	4,081	3,745	3,679	3,353	3,144	3,642	4,395	4,212	4,179	4,124	4,085
Earth, atmospheric, and ocean sciences.....	NA	NA	NA	NA	NA	1,019	1,084	1,106	1,036	1,043	1,065
Atmospheric sciences.....	NA	NA	NA	NA	NA	133	128	133	111	99	98
Earth sciences.....	NA	NA	NA	NA	NA	819	873	889	861	876	890
Oceanography.....	NA	NA	NA	NA	NA	67	83	84	64	68	77
Mathematics/computer sciences.....	6,176	6,729	6,818	6,705	6,818	6,576	6,110	6,172	6,090	6,056	6,293
Computer sciences.....	1,873	2,012	2,032	2,068	2,354	2,222	2,005	1,895	1,655	1,515	1,555
Mathematics/statistics.....	4,303	4,717	4,786	4,637	4,464	4,354	4,105	4,277	4,435	4,541	4,738
Physical sciences.....	4,133	3,834	3,766	3,129	3,078	2,152	2,088	2,023	1,774	1,874	1,782
Astronomy.....	NA	NA	NA	NA	NA	77	67	73	65	47	59
Chemistry.....	NA	NA	NA	NA	NA	1,007	1,068	1,028	929	992	876
Physics.....	NA	NA	NA	NA	NA	924	755	696	585	627	613
Other physical sciences.....	NA	NA	NA	NA	NA	144	198	226	195	208	234
Social/behavioral sciences.....	15,061	14,171	15,033	16,873	18,733	24,943	24,791	23,903	22,887	22,447	21,830
Psychology.....	7,220	6,698	7,075	7,973	8,810	10,367	10,444	9,820	9,646	9,798	9,315
Social sciences.....	7,841	7,473	7,958	8,900	9,923	14,576	14,347	14,083	13,241	12,649	12,515
Anthropology.....	NA	NA	NA	NA	NA	774	862	839	686	800	705
Area/ethnic studies.....	508	494	601	782	896	947	992	958	898	794	769
Economics.....	NA	NA	NA	NA	NA	1,161	1,047	1,067	839	840	827
History of science.....	NA	NA	NA	NA	NA	11	12	16	20	18	23
Linguistics.....	NA	NA	NA	NA	NA	317	364	319	295	284	270
Political science/public administration.....	NA	NA	NA	NA	NA	8,320	8,185	7,820	7,427	7,005	7,051
Sociology.....	NA	NA	NA	NA	NA	1,165	1,130	1,165	1,254	1,178	1,183
Other social sciences.....	NA	NA	NA	NA	NA	1,881	1,755	1,899	1,822	1,730	1,687
Non-S&E.....	179,667	173,447	186,377	203,011	217,693	222,827	234,584	239,634	247,376	244,598	248,568
Asian/Pacific Islander											
All fields.....	7,805	8,129	10,174	11,070	13,169	15,906	17,912	19,936	21,412	21,946	22,610
S&E.....	3,285	3,455	4,100	4,310	4,846	5,989	6,180	6,554	6,990	7,045	6,814
Engineering.....	1,551	1,650	1,992	2,008	2,260	2,572	2,319	2,451	2,379	2,414	2,201
Aerospace.....	NA	NA	NA	NA	NA	44	42	35	26	37	29
Chemical.....	NA	NA	NA	NA	NA	100	87	123	114	120	96
Civil.....	NA	NA	NA	NA	NA	369	386	329	283	220	204
Electrical.....	NA	NA	NA	NA	NA	1,117	911	1,082	1,061	1,026	919
Industrial.....	NA	NA	NA	NA	NA	221	153	180	192	212	190
Materials.....	NA	NA	NA	NA	NA	42	62	50	54	55	43
Mechanical.....	NA	NA	NA	NA	NA	344	293	278	265	358	315
Other.....	NA	NA	NA	NA	NA	335	385	374	384	386	405
Science.....	1,734	1,805	2,108	2,302	2,586	3,417	3,861	4,103	4,611	4,631	4,613
Natural sciences.....	1,229	1,426	1,617	1,735	1,918	2,305	2,546	2,747	3,159	3,143	3,131
Agricultural sciences.....	58	47	44	50	61	97	103	83	94	97	126

## Earned master's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Biological sciences .....	179	190	223	231	305	426	575	591	595	540	537
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	50	30	30	22	28	37
Atmospheric sciences.....	NA	NA	NA	NA	NA	6	4	11	4	5	7
Earth sciences.....	NA	NA	NA	NA	NA	37	19	15	17	17	25
Oceanography .....	NA	NA	NA	NA	NA	7	7	4	1	6	5
Mathematics/computer sciences .....	779	962	1,072	1,203	1,303	1,494	1,560	1,795	2,208	2,258	2,218
Computer sciences.....	615	779	894	1,014	1,106	1,266	1,322	1,579	2,028	2,053	2,004
Mathematics/statistics .....	164	183	178	189	197	228	238	216	180	205	214
Physical sciences .....	213	227	278	251	249	238	278	248	240	220	213
Astronomy .....	NA	NA	NA	NA	NA	8	2	4	5	5	4
Chemistry.....	NA	NA	NA	NA	NA	136	197	172	172	153	125
Physics.....	NA	NA	NA	NA	NA	91	73	60	53	56	66
Other physical sciences.....	NA	NA	NA	NA	NA	3	6	12	10	6	18
Social/behavioral sciences.....	505	379	491	567	668	1,112	1,315	1,356	1,452	1,488	1,482
Psychology .....	129	113	131	170	191	289	364	379	472	498	526
Social sciences.....	376	266	360	397	477	823	951	977	980	990	956
Anthropology .....	NA	NA	NA	NA	NA	25	25	36	39	39	34
Area/ethnic studies.....	48	32	44	56	75	75	91	83	78	101	92
Economics.....	NA	NA	NA	NA	NA	138	155	127	132	113	119
History of science.....	NA	NA	NA	NA	NA	0	0	0	0	0	2
Linguistics.....	NA	NA	NA	NA	NA	47	37	41	42	43	26
Political science/public administration .....	NA	NA	NA	NA	NA	405	478	534	516	534	512
Sociology .....	NA	NA	NA	NA	NA	74	69	72	66	70	86
Other social sciences.....	NA	NA	NA	NA	NA	59	96	84	107	90	85
Non-S&E .....	4,520	4,674	6,074	6,760	8,323	9,917	11,732	13,382	14,422	14,901	15,796
Black											
All fields .....	13,960	13,173	13,455	15,857	18,897	22,954	26,948	28,616	33,305	35,059	36,524
S&E.....	1,742	1,784	1,652	2,090	2,554	4,210	4,870	4,894	5,492	6,117	6,133
Engineering.....	330	403	355	398	564	665	674	714	658	700	738
Aerospace.....	NA	NA	NA	NA	NA	13	9	7	7	10	14
Chemical .....	NA	NA	NA	NA	NA	28	35	43	34	34	31
Civil .....	NA	NA	NA	NA	NA	105	109	127	93	102	101
Electrical.....	NA	NA	NA	NA	NA	228	168	198	183	188	189
Industrial .....	NA	NA	NA	NA	NA	80	89	111	90	119	142
Materials .....	NA	NA	NA	NA	NA	12	18	13	15	9	19
Mechanical.....	NA	NA	NA	NA	NA	91	110	96	91	89	71
Other .....	NA	NA	NA	NA	NA	108	136	119	145	149	171
Science.....	1,412	1,381	1,297	1,692	1,990	3,545	4,196	4,180	4,834	5,417	5,395
Natural sciences.....	523	581	495	644	716	897	1,041	997	1,109	1,327	1,287
Agricultural sciences.....	50	55	36	51	70	74	96	95	84	96	88
Biological sciences .....	151	167	124	137	135	163	236	190	223	313	288
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	15	12	15	7	21	18
Atmospheric sciences.....	NA	NA	NA	NA	NA	2	2	2	0	4	2
Earth sciences.....	NA	NA	NA	NA	NA	13	10	13	6	15	15
Oceanography .....	NA	NA	NA	NA	NA	0	0	0	1	2	1

## Earned master's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Mathematics/computer sciences .....	233	280	257	383	406	513	565	566	678	767	772
Computer sciences.....	180	207	198	283	308	373	411	424	580	654	659
Mathematics/statistics .....	53	73	59	100	98	140	154	142	98	113	113
Physical sciences .....	89	79	78	73	105	132	132	131	117	130	121
Astronomy.....	NA	NA	NA	NA	NA	4	2	0	0	0	2
Chemistry.....	NA	NA	NA	NA	NA	77	84	79	65	82	74
Physics.....	NA	NA	NA	NA	NA	41	39	34	44	41	37
Other physical sciences.....	NA	NA	NA	NA	NA	10	7	18	8	7	8
Social/behavioral sciences.....	889	800	802	1,048	1,274	2,648	3,155	3,183	3,725	4,090	4,108
Psychology .....	426	376	395	454	544	802	1,059	1,020	1,346	1,598	1,631
Social sciences.....	463	424	407	594	730	1,846	2,096	2,163	2,379	2,492	2,477
Anthropology .....	NA	NA	NA	NA	NA	38	29	26	33	37	32
Area/ethnic studies.....	41	34	27	52	116	101	109	104	91	86	108
Economics.....	NA	NA	NA	NA	NA	95	96	94	71	66	76
History of science.....	NA	NA	NA	NA	NA	1	1	0	0	1	2
Linguistics.....	NA	NA	NA	NA	NA	12	12	12	4	14	5
Political science/public administration .....	NA	NA	NA	NA	NA	1,176	1,386	1,453	1,585	1,754	1,717
Sociology .....	NA	NA	NA	NA	NA	229	247	220	344	294	285
Other social sciences.....	NA	NA	NA	NA	NA	194	216	254	251	240	252
Non-S&E.....	12,218	11,389	11,803	13,767	16,343	18,744	22,078	23,722	27,813	28,942	30,391
Hispanic											
All fields .....	7,730	7,781	8,133	9,684	11,371	13,905	16,360	17,416	20,803	22,163	23,165
S&E.....	1,514	1,584	1,585	1,736	2,092	2,945	3,220	3,462	3,746	4,077	4,089
Engineering.....	346	512	468	468	581	711	765	807	852	838	855
Aerospace.....	NA	NA	NA	NA	NA	22	20	16	13	11	19
Chemical .....	NA	NA	NA	NA	NA	30	51	46	39	40	45
Civil .....	NA	NA	NA	NA	NA	151	159	158	180	168	187
Electrical.....	NA	NA	NA	NA	NA	197	187	190	211	172	180
Industrial .....	NA	NA	NA	NA	NA	95	108	150	172	192	204
Materials .....	NA	NA	NA	NA	NA	11	22	15	15	22	16
Mechanical.....	NA	NA	NA	NA	NA	100	113	117	99	93	87
Other .....	NA	NA	NA	NA	NA	105	105	115	123	140	117
Science.....	1,168	1,072	1,117	1,268	1,511	2,234	2,455	2,655	2,894	3,239	3,234
Natural sciences.....	481	493	444	494	574	674	732	761	915	1,092	1,028
Agricultural sciences.....	66	62	48	49	69	96	105	116	133	123	175
Biological sciences .....	139	126	126	136	151	167	214	192	268	310	267
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	34	23	20	30	28	35
Atmospheric sciences.....	NA	NA	NA	NA	NA	6	3	2	2	0	1
Earth sciences.....	NA	NA	NA	NA	NA	28	18	17	26	25	31
Oceanography .....	NA	NA	NA	NA	NA	0	2	1	2	3	3
Mathematics/computer sciences .....	149	183	178	213	240	282	274	304	388	512	415
Computer sciences.....	94	123	144	128	162	210	211	219	288	440	333
Mathematics/statistics .....	55	60	34	85	78	72	63	85	100	72	82
Physical sciences .....	127	122	92	96	114	95	116	129	96	119	136
Astronomy.....	NA	NA	NA	NA	NA	2	2	0	2	1	2

## Earned master's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Chemistry.....	NA	NA	NA	NA	NA	51	72	84	56	74	72
Physics.....	NA	NA	NA	NA	NA	37	36	35	34	37	56
Other physical sciences.....	NA	NA	NA	NA	NA	5	6	10	4	7	6
Social/behavioral sciences.....	687	579	673	774	937	1,560	1,723	1,894	1,979	2,147	2,206
Psychology.....	344	271	360	391	463	622	718	787	837	937	953
Social sciences.....	343	308	313	383	474	938	1,005	1,107	1,142	1,210	1,253
Anthropology.....	NA	NA	NA	NA	NA	45	37	48	37	45	59
Area/ethnic studies.....	59	66	64	79	78	88	91	96	107	113	121
Economics.....	NA	NA	NA	NA	NA	53	71	63	67	53	57
History of science.....	NA	NA	NA	NA	NA	0	1	0	0	1	0
Linguistics.....	NA	NA	NA	NA	NA	17	24	27	18	27	19
Political science/public administration.....	NA	NA	NA	NA	NA	573	634	651	701	736	743
Sociology.....	NA	NA	NA	NA	NA	85	69	97	110	116	140
Other social sciences.....	NA	NA	NA	NA	NA	77	78	125	102	119	114
Non-S&E.....	6,216	6,197	6,548	7,948	9,279	10,960	13,140	13,954	17,057	18,086	19,076
American Indian/Alaska Native											
All fields.....	1,257	1,049	1,082	1,125	1,344	1,542	1,844	1,951	2,099	2,274	2,382
S&E.....	228	147	209	200	253	307	370	372	383	472	420
Engineering.....	47	38	33	40	50	43	53	54	64	60	57
Aerospace.....	NA	NA	NA	NA	NA	2	2	0	0	2	4
Chemical.....	NA	NA	NA	NA	NA	3	5	1	3	4	2
Civil.....	NA	NA	NA	NA	NA	10	10	14	14	10	11
Electrical.....	NA	NA	NA	NA	NA	10	8	9	14	10	13
Industrial.....	NA	NA	NA	NA	NA	5	6	7	8	15	8
Materials.....	NA	NA	NA	NA	NA	1	0	0	4	1	2
Mechanical.....	NA	NA	NA	NA	NA	7	10	13	7	7	6
Other.....	NA	NA	NA	NA	NA	5	12	10	14	11	11
Science.....	181	109	176	160	203	264	317	318	319	412	363
Natural sciences.....	93	48	86	57	68	79	98	92	108	144	118
Agricultural sciences.....	6	3	6	8	8	13	18	23	23	18	25
Biological sciences.....	18	11	17	13	26	20	25	21	26	29	34
Earth, atmospheric, and ocean sciences.....	NA	NA	NA	NA	NA	4	5	10	9	11	4
Earth sciences.....	NA	NA	NA	NA	NA	4	5	8	9	8	4
Oceanography.....	NA	NA	NA	NA	NA	0	0	2	0	3	0
Mathematics/computer sciences.....	48	25	45	23	22	27	39	24	41	77	40
Computer sciences.....	41	22	39	14	14	16	25	15	32	68	32
Mathematics/statistics.....	7	3	6	9	8	11	14	9	9	9	8
Physical sciences.....	21	9	18	13	12	15	11	14	9	9	15
Chemistry.....	NA	NA	NA	NA	NA	11	8	12	5	7	11
Physics.....	NA	NA	NA	NA	NA	4	2	2	3	2	4
Other physical sciences.....	NA	NA	NA	NA	NA	0	1	0	1	0	0
Social/behavioral sciences.....	88	61	90	103	135	185	219	226	211	268	245
Psychology.....	37	35	33	49	57	81	97	108	69	106	96
Social sciences.....	51	26	57	54	78	104	122	118	142	162	149
Anthropology.....	NA	NA	NA	NA	NA	16	10	14	14	17	12

## Earned master's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Area/ethnic studies.....	8	4	6	11	9	10	21	15	16	20	20
Economics.....	NA	NA	NA	NA	NA	5	8	5	3	7	10
History of science.....	NA	NA	NA	NA	NA	0	0	0	0	1	1
Linguistics.....	NA	NA	NA	NA	NA	0	2	2	1	1	4
Political science/public administration.....	NA	NA	NA	NA	NA	46	55	49	62	70	74
Sociology.....	NA	NA	NA	NA	NA	14	16	19	30	28	17
Other social sciences.....	NA	NA	NA	NA	NA	13	10	14	16	18	11
Non-S&E.....	1,029	756	1,004	1,016	1,276	1,268	1,153	1,432	1,146	1,129	1,101
Other/unknown race/ethnicity											
All fields.....	5,860	15,329	15,761	15,627	16,415	18,928	20,060	19,785	25,844	30,623	36,162
S&E.....	1,469	3,399	3,699	2,930	3,545	4,031	3,811	3,685	4,472	5,061	5,757
Engineering.....	781	836	1,308	938	1,164	1,109	935	866	940	1,044	1,208
Aerospace.....	NA	NA	NA	NA	NA	83	23	19	9	23	19
Chemical.....	NA	NA	NA	NA	NA	30	29	30	30	41	53
Civil.....	NA	NA	NA	NA	NA	164	158	142	141	150	159
Electrical.....	NA	NA	NA	NA	NA	350	254	263	288	319	427
Industrial.....	NA	NA	NA	NA	NA	131	156	150	172	164	153
Materials.....	NA	NA	NA	NA	NA	22	20	13	22	27	19
Mechanical.....	NA	NA	NA	NA	NA	160	109	104	120	117	151
Other.....	NA	NA	NA	NA	NA	169	186	145	158	203	227
Science.....	688	2,563	2,391	1,992	2,381	2,922	2,876	2,819	3,532	4,017	4,549
Natural sciences.....	401	1,334	1,445	1,000	1,053	1,195	1,091	1,149	1,355	1,645	1,981
Agricultural sciences.....	21	46	23	46	115	194	138	120	144	165	175
Biological sciences.....	49	251	148	187	188	192	226	262	284	298	318
Earth, atmospheric, and ocean sciences.....	NA	NA	NA	NA	NA	76	44	37	46	60	48
Atmospheric sciences.....	NA	NA	NA	NA	NA	4	6	4	1	8	5
Earth sciences.....	NA	NA	NA	NA	NA	37	34	30	43	46	36
Oceanography.....	NA	NA	NA	NA	NA	35	4	3	2	6	7
Mathematics/computer sciences.....	210	726	1,041	551	545	591	574	595	745	976	1,271
Computer sciences.....	159	566	896	429	334	448	442	443	603	840	1,129
Mathematics/statistics.....	51	160	145	122	211	143	132	152	142	136	142
Physical sciences.....	121	311	233	216	205	142	109	135	136	146	169
Astronomy.....	NA	NA	NA	NA	NA	3	1	5	8	12	10
Chemistry.....	NA	NA	NA	NA	NA	84	72	71	82	80	102
Physics.....	NA	NA	NA	NA	NA	47	33	55	42	45	53
Other physical sciences.....	NA	NA	NA	NA	NA	8	3	4	4	9	4
Social/behavioral sciences.....	287	1,229	946	992	1,328	1,727	1,785	1,670	2,177	2,372	2,568
Psychology.....	29	452	399	448	623	498	549	572	871	934	1,041
Social sciences.....	258	777	547	544	705	1,229	1,236	1,098	1,306	1,438	1,527
Anthropology.....	NA	NA	NA	NA	NA	60	57	49	55	66	76
Area/ethnic studies.....	101	134	94	94	181	180	93	84	110	173	159
Economics.....	NA	NA	NA	NA	NA	109	79	84	97	93	102
History of science.....	NA	NA	NA	NA	NA	1	2	0	2	0	5
Linguistics.....	NA	NA	NA	NA	NA	19	34	19	20	25	27
Political science/public administration.....	NA	NA	NA	NA	NA	697	779	713	820	847	940

**Earned master's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002**

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
Sociology .....	NA	NA	NA	NA	NA	47	49	49	41	58	55
Other social sciences.....	NA	NA	NA	NA	NA	116	143	100	161	176	163
Non-S&E.....	4,391	11,930	12,062	12,697	12,870	14,897	16,249	16,100	21,372	25,562	30,405
Temporary resident											
All fields .....	26,952	28,264	32,123	37,611	44,109	48,756	49,477	52,205	55,571	61,190	63,311
S&E.....	12,506	13,045	15,143	17,049	20,150	22,217	21,265	22,623	24,750	27,422	27,550
Engineering.....	5,694	5,781	6,747	7,520	9,119	9,699	8,636	9,161	9,823	11,001	10,803
Aerospace.....	NA	NA	NA	NA	NA	206	184	210	221	251	287
Chemical .....	NA	NA	NA	NA	NA	684	597	592	631	642	605
Civil .....	NA	NA	NA	NA	NA	1,456	1,216	1,189	1,092	1,233	1,354
Electrical.....	NA	NA	NA	NA	NA	3,368	3,076	3,519	4,108	4,671	4,243
Industrial.....	NA	NA	NA	NA	NA	999	1,063	1,105	1,176	1,409	1,430
Materials .....	NA	NA	NA	NA	NA	317	252	251	276	300	244
Mechanical .....	NA	NA	NA	NA	NA	1,429	1,154	1,128	1,166	1,250	1,305
Other .....	NA	NA	NA	NA	NA	1,240	1,094	1,167	1,153	1,245	1,335
Science.....	6,812	7,264	8,396	9,529	11,031	12,518	12,629	13,462	14,927	16,421	16,747
Natural sciences .....	4,572	5,035	5,922	6,734	8,062	8,302	8,191	8,816	10,275	11,730	11,652
Agricultural sciences.....	606	567	630	603	694	653	658	598	516	471	479
Biological sciences.....	474	509	636	749	849	885	923	900	750	873	805
Earth, atmospheric, and ocean sciences .....	NA	NA	NA	NA	NA	285	237	208	195	172	199
Atmospheric sciences.....	NA	NA	NA	NA	NA	52	34	47	38	24	28
Earth sciences.....	NA	NA	NA	NA	NA	204	186	133	142	134	150
Oceanography .....	NA	NA	NA	NA	NA	29	17	28	15	14	21
Mathematics/computer sciences .....	2,394	2,903	3,418	3,878	4,917	5,012	4,966	5,821	7,674	8,975	8,981
Computer sciences.....	1,709	2,067	2,442	2,819	3,779	3,896	3,973	4,795	6,563	7,745	7,687
Mathematics/statistics.....	685	836	976	1,059	1,138	1,116	993	1,026	1,111	1,230	1,294
Physical sciences .....	1,098	1,056	1,238	1,504	1,602	1,467	1,407	1,289	1,140	1,239	1,188
Astronomy.....	NA	NA	NA	NA	NA	25	19	19	22	28	35
Chemistry.....	NA	NA	NA	NA	NA	739	767	727	599	621	606
Physics.....	NA	NA	NA	NA	NA	682	559	519	483	568	524
Other physical sciences.....	NA	NA	NA	NA	NA	21	62	24	36	22	23
Social/behavioral sciences.....	2,240	2,229	2,474	2,795	2,969	4,216	4,438	4,646	4,652	4,691	5,095
Psychology .....	296	220	259	317	332	473	402	460	467	464	479
Social sciences.....	1,944	2,009	2,215	2,478	2,637	3,743	4,036	4,186	4,185	4,227	4,616
Anthropology .....	NA	NA	NA	NA	NA	95	91	86	86	88	99
Area/ethnic studies.....	119	112	154	188	179	183	190	210	229	228	228
Economics.....	NA	NA	NA	NA	NA	1,277	1,348	1,403	1,306	1,320	1,460

**Earned master's degrees, by field, race/ethnicity, and citizenship: Selected years, 1985–2002**

Field, race/ethnicity, and citizenship	1985	1987	1989	1991	1993	1995	1997	1998	2000	2001	2002
History of science .....	NA	NA	NA	NA	NA	0	2	6	2	5	2
Linguistics .....	NA	NA	NA	NA	NA	191	169	148	173	158	169
Political science/public administration .....	NA	NA	NA	NA	NA	1,585	1,851	1,931	1,924	1,983	2,146
Sociology .....	NA	NA	NA	NA	NA	176	172	152	191	157	191
Other social sciences .....	NA	NA	NA	NA	NA	236	213	250	274	288	321
Non-S&E .....	14,446	15,219	16,980	20,562	23,959	26,539	28,212	29,582	30,821	33,768	35,761

NA = not available

NOTES: Data on race/ethnicity collected on broad fields of study only until 1994. Field taxonomies for data through 1994 do not exactly match field taxonomies used in tables by sex, or race/ethnicity data after 1994. Primary difference between taxonomies: history included in social sciences before 1995 but included in non-S&E from 1995 on. Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1983 or 1999.

SOURCES: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey; and National Science Foundation, Division of Science Resources Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

*Science and Engineering Indicators 2006*

## Earned doctoral degrees, by field, sex, and citizenship: Selected years, 1983–2003

Field, sex, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
<b>Both sexes</b>													
All fields .....	31,716	31,239	31,356	31,281	31,296	32,370	34,327	37,531	39,800	41,748	42,540	41,090	40,808
S&E .....	18,519	18,440	18,914	19,274	19,663	20,694	22,706	25,061	26,640	27,864	28,653	27,339	27,160
Engineering .....	2,648	2,494	2,528	2,781	3,166	3,712	4,543	5,214	5,698	6,008	6,115	5,330	5,502
Aerospace .....	115	81	97	106	124	142	178	207	228	252	273	206	203
Chemical .....	329	315	317	392	504	584	712	691	737	708	767	674	728
Civil .....	336	302	358	397	391	477	538	575	624	656	655	584	594
Electrical .....	667	611	549	625	716	779	1,137	1,405	1,543	1,731	1,720	1,478	1,576
Industrial .....	73	82	66	86	92	120	162	165	236	284	246	211	205
Materials .....	248	236	234	268	303	392	380	489	535	588	582	469	497
Mechanical .....	372	366	360	379	513	657	760	875	1,030	1,025	1,022	855	953
Other .....	508	501	547	528	523	561	676	807	765	764	850	853	746
Science .....	15,871	15,946	16,386	16,493	16,497	16,982	18,163	19,847	20,942	21,856	22,538	22,009	21,658
Natural sciences .....	9,151	9,364	9,612	9,820	10,163	10,645	11,631	13,042	13,753	14,549	14,871	14,277	14,138
Agricultural sciences .....	782	855	982	1,015	1,110	976	1,086	1,073	968	1,036	982	966	853
Biological sciences .....	3,484	3,646	3,803	3,741	3,793	3,839	4,116	4,649	5,092	5,376	5,789	5,582	5,690
Earth, atmospheric, and ocean sciences .....	689	642	583	624	599	602	723	815	771	780	878	805	749
Atmospheric sciences .....	93	84	75	97	80	87	87	108	99	130	149	124	116
Earth sciences .....	420	383	354	368	385	375	455	560	479	454	489	452	393
Oceanography .....	122	122	100	109	92	111	113	112	125	115	144	130	121
Other geosciences .....	54	53	54	50	42	29	68	35	68	81	96	99	119
Mathematics/computer sciences .....	964	979	960	987	998	1,190	1,471	1,838	2,026	2,187	2,032	1,938	1,833
Computer sciences .....	31	210	232	286	310	450	612	800	880	997	909	855	826
Mathematics/statistics .....	933	769	728	701	688	740	859	1,038	1,146	1,190	1,123	1,083	1,007
Medical/other life sciences .....	511	568	657	639	729	800	974	1,041	1,197	1,329	1,421	1,407	1,620
Medical sciences .....	207	271	315	294	367	375	430	456	518	555	545	607	647
Other life sciences .....	304	297	342	345	362	425	544	585	679	774	876	800	973
Physical sciences .....	2,721	2,674	2,627	2,814	2,934	3,238	3,261	3,626	3,699	3,841	3,769	3,579	3,393
Astronomy .....	120	115	109	115	100	100	113	125	145	173	198	159	186
Chemistry .....	1,571	1,566	1,612	1,758	1,836	1,975	1,970	2,194	2,137	2,162	2,148	2,132	1,980
Physics .....	1,030	993	906	928	980	1,137	1,161	1,286	1,399	1,479	1,401	1,271	1,197
Other physical sciences .....	0	0	0	13	18	26	17	21	18	27	22	17	30
Social/behavioral sciences .....	6,720	6,582	6,774	6,673	6,334	6,337	6,532	6,805	7,189	7,307	7,667	7,732	7,520
Psychology .....	2,990	3,091	3,358	3,347	3,117	3,173	3,208	3,250	3,420	3,429	3,557	3,668	3,442
Social sciences .....	3,730	3,491	3,416	3,326	3,217	3,164	3,324	3,555	3,769	3,878	4,110	4,064	4,078
Anthropology .....	408	418	397	403	377	383	351	374	380	410	469	489	450
Area/ethnic studies .....	111	108	107	119	106	92	93	116	137	121	94	109	146
Economics .....	983	956	993	971	959	960	1,062	1,053	1,067	1,152	1,163	1,075	1,081
History of science .....	29	28	26	13	23	25	20	27	37	41	35	50	40
Linguistics .....	190	156	176	164	176	199	188	227	214	201	244	251	230
Political science/public administration .....	879	767	679	655	666	647	700	740	824	894	975	1,016	984
Sociology .....	725	632	605	551	486	449	458	493	535	555	601	572	577
Other social sciences .....	405	426	433	450	424	409	452	525	575	504	529	502	570
Non-S&E .....	13,197	12,799	12,442	12,007	11,633	11,676	11,621	12,470	13,160	13,884	13,887	13,751	13,648

## Earned doctoral degrees, by field, sex, and citizenship: Selected years, 1983–2003

Field, sex, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
<b>Male</b>													
All fields .....	23,858	22,302	21,464	20,748	20,552	20,938	21,814	23,522	24,384	25,161	24,943	23,434	22,791
S&E.....	15,107	14,467	14,412	14,222	14,332	14,907	15,968	17,352	17,976	18,594	18,552	17,234	16,748
Engineering.....	2,574	2,432	2,429	2,657	2,968	3,470	4,168	4,703	5,097	5,270	5,316	4,504	4,565
Aerospace.....	112	81	97	104	119	132	170	198	218	237	254	188	174
Chemical.....	319	306	306	369	463	524	632	605	638	597	641	550	546
Civil.....	328	298	348	384	371	459	484	529	558	575	571	495	482
Electrical.....	646	600	527	612	681	747	1,070	1,312	1,403	1,545	1,560	1,310	1,372
Industrial.....	68	77	60	80	86	107	144	146	207	231	205	169	160
Materials.....	238	228	217	238	271	347	335	412	449	489	470	376	392
Mechanical.....	366	361	354	371	487	640	731	810	955	954	928	751	860
Other.....	497	481	520	499	490	514	602	691	669	642	687	665	579
Science.....	12,533	12,035	11,983	11,565	11,364	11,437	11,800	12,649	12,879	13,324	13,236	12,730	12,183
Natural sciences.....	7,699	7,608	7,587	7,500	7,600	7,809	8,203	9,171	9,242	9,692	9,596	9,171	8,729
Agricultural sciences.....	726	775	848	882	939	805	859	860	736	804	715	682	557
Biological sciences.....	2,697	2,695	2,716	2,508	2,555	2,479	2,574	2,863	3,014	3,132	3,262	3,171	3,133
Earth, atmospheric, and ocean sciences.....	630	584	527	529	491	490	575	631	602	608	663	591	512
Atmospheric sciences.....	84	81	72	91	76	73	77	89	79	106	124	101	87
Earth sciences.....	383	345	321	315	310	299	363	436	384	362	366	338	278
Oceanography.....	116	112	91	84	69	95	87	86	89	87	105	85	75
Other geosciences.....	47	46	43	39	36	23	48	20	50	53	68	67	72
Mathematics/computer sciences.....	837	833	822	838	859	1,000	1,208	1,514	1,602	1,727	1,594	1,495	1,400
Computer sciences.....	26	183	206	250	277	385	504	679	737	808	743	692	669
Mathematics/statistics.....	811	650	616	588	582	615	704	835	865	919	851	803	731
Medical/other life sciences.....	332	339	356	302	289	325	345	369	408	477	469	499	576
Medical sciences.....	157	194	210	191	204	233	224	245	268	264	257	273	275
Other life sciences.....	175	145	146	111	85	92	121	124	140	213	212	226	301
Physical sciences.....	2,477	2,382	2,318	2,441	2,467	2,710	2,642	2,934	2,880	2,944	2,893	2,733	2,551
Astronomy.....	111	107	98	100	89	87	96	110	120	143	161	126	145
Chemistry.....	1,391	1,347	1,376	1,461	1,474	1,569	1,471	1,672	1,530	1,488	1,523	1,493	1,349
Physics.....	975	928	844	869	889	1,030	1,060	1,137	1,216	1,291	1,196	1,103	1,036
Other physical sciences.....	0	0	0	11	15	24	15	15	14	22	13	11	21
Social/behavioral sciences.....	4,834	4,427	4,396	4,065	3,764	3,628	3,597	3,478	3,637	3,632	3,640	3,559	3,454
Psychology.....	1,902	1,831	1,885	1,750	1,576	1,475	1,408	1,249	1,322	1,245	1,162	1,209	1,132
Social sciences.....	2,932	2,596	2,511	2,315	2,188	2,153	2,189	2,229	2,315	2,387	2,478	2,350	2,322
Anthropology.....	264	238	232	209	187	185	189	143	149	172	203	214	187
Area/ethnic studies.....	68	70	57	62	59	48	40	55	68	55	42	48	49
Economics.....	904	840	879	820	814	797	864	833	808	864	876	781	773
History of science.....	24	22	21	6	21	15	11	15	21	24	21	32	32
Linguistics.....	117	78	98	78	85	93	82	112	89	98	107	99	94
Political science/public administration.....	737	627	544	505	491	472	499	527	569	620	674	655	650
Sociology.....	488	400	363	323	243	274	226	247	279	258	265	228	240
Other social sciences.....	330	321	317	312	288	269	278	297	332	296	290	293	297
Non-S&E.....	8,751	7,835	7,052	6,526	6,220	6,031	5,846	6,170	6,408	6,567	6,391	6,200	6,043

## Earned doctoral degrees, by field, sex, and citizenship: Selected years, 1983–2003

Field, sex, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
<b>Female</b>													
All fields .....	7,858	8,937	9,892	10,533	10,744	11,432	12,513	13,873	15,121	16,417	17,241	17,479	17,947
S&E.....	3,412	3,973	4,502	5,052	5,331	5,787	6,738	7,600	8,429	9,129	9,870	9,980	10,360
Engineering.....	74	62	99	124	198	242	375	467	522	696	750	788	928
Aerospace.....	3	0	0	2	5	10	8	7	8	14	16	17	28
Chemical.....	10	9	11	23	41	60	80	83	94	109	122	123	180
Civil.....	8	4	10	13	20	18	54	41	54	76	80	89	111
Electrical.....	21	11	22	13	35	32	67	79	125	173	150	155	203
Industrial.....	5	5	6	6	6	13	18	17	27	50	40	42	44
Materials.....	10	8	17	30	32	45	45	77	78	95	106	88	105
Mechanical.....	6	5	6	8	26	17	29	57	57	64	88	96	91
Other.....	11	20	27	29	33	47	74	106	79	115	148	178	166
Science.....	3,338	3,911	4,403	4,928	5,133	5,545	6,363	7,133	7,907	8,433	9,120	9,192	9,432
Natural sciences.....	1,452	1,756	2,025	2,320	2,563	2,836	3,428	3,824	4,397	4,787	5,165	5,047	5,376
Agricultural sciences.....	56	80	134	133	171	171	227	209	228	228	260	280	290
Biological sciences.....	787	951	1,087	1,233	1,238	1,360	1,542	1,773	2,050	2,217	2,495	2,394	2,549
Earth, atmospheric, and ocean sciences.....	59	58	56	95	108	112	148	179	160	170	209	210	236
Atmospheric sciences.....	9	3	3	6	4	14	10	16	18	23	25	22	28
Earth sciences.....	37	38	33	53	75	76	92	124	89	91	119	112	115
Oceanography.....	6	10	9	25	23	16	26	26	35	28	38	45	46
Other geosciences.....	7	7	11	11	6	6	20	13	18	28	27	31	47
Mathematics/computer sciences.....	127	146	138	149	139	190	263	316	402	451	413	433	431
Computer sciences.....	5	27	26	36	33	65	108	117	138	186	150	156	155
Mathematics/statistics.....	122	119	112	113	106	125	155	199	264	265	263	277	276
Medical/other life sciences.....	179	229	301	337	440	475	629	668	777	843	936	899	1,032
Medical sciences.....	50	77	105	103	163	142	206	208	241	285	280	329	366
Other life sciences.....	129	152	196	234	277	333	423	460	536	558	656	570	666
Physical sciences.....	244	292	309	373	467	528	619	679	780	878	852	831	838
Astronomy.....	9	8	11	15	11	13	17	14	25	30	37	33	41
Chemistry.....	180	219	236	297	362	406	499	517	582	661	613	632	628
Physics.....	55	65	62	59	91	107	101	142	169	182	193	160	160
Other physical sciences.....	0	0	0	2	3	2	2	6	4	5	9	6	9
Social/behavioral sciences.....	1,886	2,155	2,378	2,608	2,570	2,709	2,935	3,309	3,510	3,646	3,955	4,145	4,056
Psychology.....	1,088	1,260	1,473	1,597	1,541	1,698	1,800	1,996	2,088	2,181	2,363	2,449	2,306
Social sciences.....	798	895	905	1,011	1,029	1,011	1,135	1,313	1,422	1,465	1,592	1,696	1,750
Anthropology.....	144	180	165	194	190	198	162	230	231	237	261	275	263
Area/ethnic studies.....	43	38	50	57	47	44	53	61	68	65	52	59	97
Economics.....	79	116	114	151	145	163	198	217	246	279	266	291	306
History of science.....	5	6	5	7	2	10	9	11	16	17	13	18	8
Linguistics.....	73	78	78	86	91	106	106	112	118	102	135	148	136
Political science/public administration.....	142	140	135	150	175	175	201	211	246	265	298	356	330
Sociology.....	237	232	242	228	243	175	232	246	255	294	334	342	337
Other social sciences.....	75	105	116	138	136	140	174	225	242	206	233	207	273
Non-S&E.....	4,446	4,964	5,390	5,481	5,413	5,645	5,775	6,273	6,692	7,288	7,371	7,499	7,587

## Earned doctoral degrees, by field, sex, and citizenship: Selected years, 1983–2003

Field, sex, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
U.S. citizens													
All fields .....	26,145	25,474	25,068	24,393	23,376	22,984	23,402	25,571	26,449	27,741	28,151	27,984	27,031
S&E.....	14,313	14,212	14,311	14,133	13,687	13,572	14,198	15,406	15,812	16,425	17,071	16,884	16,148
Engineering.....	1,475	1,294	1,170	1,164	1,279	1,558	1,864	2,086	2,228	2,386	2,739	2,485	2,140
Aerospace.....	58	30	50	40	53	64	74	103	114	140	155	103	94
Chemical.....	166	144	131	174	240	294	382	348	324	291	321	333	329
Civil.....	162	153	157	154	130	162	188	173	168	206	249	261	222
Electrical.....	383	331	275	259	270	320	440	554	630	683	753	639	465
Industrial.....	39	45	35	27	29	44	51	50	89	108	102	86	72
Materials.....	133	116	99	118	144	176	173	211	228	238	271	225	202
Mechanical.....	211	192	158	145	193	241	259	297	347	383	456	398	385
Other.....	323	283	265	247	220	257	297	350	328	337	432	440	371
Science.....	12,838	12,918	13,141	12,969	12,408	12,014	12,334	13,320	13,584	14,039	14,332	14,399	14,008
Natural sciences.....	7,160	7,413	7,520	7,507	7,434	7,264	7,686	8,218	8,262	8,577	8,724	8,544	8,517
Agricultural sciences.....	489	545	594	649	683	584	606	564	457	492	467	443	403
Biological sciences.....	2,912	3,131	3,297	3,215	3,150	2,981	3,118	3,313	3,449	3,494	3,670	3,660	3,899
Earth, atmospheric, and ocean sciences.....	558	531	472	475	435	410	518	592	463	478	537	475	430
Atmospheric sciences.....	71	59	56	72	54	51	55	56	42	64	83	61	55
Earth sciences.....	337	322	284	284	278	261	335	430	303	284	310	273	244
Oceanography.....	104	106	89	83	71	76	75	79	70	68	80	78	68
Other geosciences.....	46	44	43	36	32	22	53	27	48	62	64	63	63
Mathematics/computer sciences.....	716	715	650	592	566	588	731	850	921	1,038	960	959	836
Computer sciences.....	25	163	168	180	189	243	338	388	425	484	430	420	367
Mathematics/statistics.....	691	552	482	412	377	345	393	462	496	554	530	539	469
Medical/other life sciences.....	414	451	551	499	550	606	729	779	879	938	959	972	1,088
Medical sciences.....	141	189	239	200	236	249	278	286	310	324	308	374	387
Other life sciences.....	273	262	312	299	314	357	451	493	569	614	651	598	701
Physical sciences.....	2,071	2,040	1,956	2,077	2,050	2,095	1,984	2,120	2,093	2,137	2,131	2,035	1,861
Astronomy.....	106	97	96	101	82	72	78	84	106	120	151	111	119
Chemistry.....	1,238	1,240	1,235	1,357	1,345	1,381	1,298	1,351	1,272	1,238	1,234	1,256	1,127
Physics.....	727	703	625	609	616	627	597	671	704	764	731	657	602
Other physical sciences.....	0	0	0	10	7	15	11	14	11	15	15	11	13
Social/behavioral sciences.....	5,678	5,505	5,621	5,462	4,974	4,750	4,648	5,102	5,322	5,462	5,608	5,855	5,491
Psychology.....	2,774	2,852	3,112	3,048	2,804	2,747	2,684	2,953	3,071	3,083	3,036	3,222	2,958
Social sciences.....	2,904	2,653	2,509	2,414	2,170	2,003	1,964	2,149	2,251	2,379	2,572	2,633	2,533
Anthropology.....	359	360	345	352	322	311	278	315	311	330	356	375	348
Area/ethnic studies.....	105	99	94	109	90	81	77	92	105	96	86	91	129
Economics.....	647	600	620	584	522	488	509	451	435	492	487	463	399
History of science.....	28	25	22	12	17	23	16	18	28	31	32	40	36
Linguistics.....	133	99	117	105	107	107	88	116	91	98	126	136	107
Political science/public administration.....	720	605	515	507	473	422	439	502	563	636	730	755	711
Sociology.....	619	534	495	433	375	317	300	324	359	378	415	429	448
Other social sciences.....	293	331	301	312	264	254	257	331	359	318	340	344	355
Non-S&E.....	11,832	11,262	10,757	10,260	9,689	9,412	9,204	10,165	10,637	11,316	11,080	11,100	10,883

## Earned doctoral degrees, by field, sex, and citizenship: Selected years, 1983–2003

Field, sex, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
<b>Male</b>													
All fields .....	19,172	17,585	16,367	15,140	14,227	13,574	13,396	14,383	14,513	14,964	15,047	14,513	13,636
S&E.....	11,419	10,822	10,468	9,808	9,308	9,008	9,028	9,608	9,652	9,859	10,138	9,727	8,995
Engineering.....	1,433	1,255	1,117	1,080	1,160	1,409	1,615	1,807	1,932	2,012	2,324	2,059	1,730
Aerospace.....	57	30	50	38	50	58	70	98	108	128	143	93	77
Chemical .....	162	140	123	160	211	250	322	297	265	221	260	268	247
Civil .....	155	152	152	144	121	153	151	152	138	170	204	207	163
Electrical.....	371	324	264	249	250	306	411	510	573	604	679	577	422
Industrial .....	37	41	29	23	25	36	41	39	69	82	77	58	50
Materials .....	128	111	92	99	125	144	138	164	186	185	213	176	155
Mechanical.....	206	188	154	139	178	231	240	263	314	355	409	346	351
Other .....	317	269	253	228	200	231	242	284	279	267	339	334	265
Science.....	9,986	9,567	9,351	8,728	8,148	7,599	7,413	7,801	7,720	7,847	7,814	7,668	7,265
Natural sciences.....	6,005	5,970	5,849	5,576	5,398	5,113	5,137	5,505	5,271	5,422	5,399	5,200	4,969
Agricultural sciences.....	456	494	506	549	563	468	450	436	333	380	332	298	252
Biological sciences .....	2,250	2,322	2,353	2,142	2,118	1,904	1,928	2,023	2,000	2,006	2,031	2,011	2,115
Earth, atmospheric, and ocean sciences .....	511	481	425	396	348	328	404	444	351	366	390	338	281
Atmospheric sciences.....	67	56	55	67	51	43	52	50	32	56	72	52	42
Earth sciences.....	305	291	255	240	216	202	260	319	238	219	221	195	160
Oceanography .....	99	96	80	62	54	66	55	58	46	52	52	51	40
Other geosciences.....	40	38	35	27	27	17	37	17	35	39	45	40	39
Mathematics/computer sciences .....	625	597	550	489	472	473	566	674	714	790	734	704	615
Computer sciences.....	21	137	148	153	165	193	266	305	343	368	347	330	283
Mathematics/statistics .....	604	460	402	336	307	280	300	369	371	422	387	374	332
Medical/other life sciences .....	262	250	283	211	171	207	207	221	226	263	254	285	312
Medical sciences.....	108	128	156	120	106	143	120	135	128	120	120	142	125
Other life sciences.....	154	122	127	91	65	64	87	86	98	143	134	143	187
Physical sciences .....	1,901	1,826	1,732	1,789	1,726	1,733	1,582	1,707	1,647	1,617	1,658	1,564	1,394
Astronomy.....	98	90	89	86	73	63	67	77	86	99	126	87	92
Chemistry.....	1,109	1,070	1,056	1,122	1,084	1,085	956	1,014	920	829	882	894	762
Physics.....	694	666	587	573	563	571	549	605	633	676	639	578	529
Other physical sciences.....	0	0	0	8	6	14	10	11	8	13	11	5	11
Social/behavioral sciences.....	3,981	3,597	3,502	3,152	2,750	2,486	2,276	2,296	2,449	2,425	2,415	2,468	2,296
Psychology .....	1,767	1,700	1,747	1,578	1,395	1,259	1,146	1,105	1,200	1,092	987	1,042	960
Social sciences.....	2,214	1,897	1,755	1,574	1,355	1,227	1,130	1,191	1,249	1,333	1,428	1,426	1,336
Anthropology .....	228	200	203	180	156	141	148	119	119	134	146	164	142
Area/ethnic studies.....	67	66	46	58	49	42	30	39	47	42	37	41	45
Economics.....	590	518	540	480	427	382	375	334	312	344	363	329	273
History of science.....	23	19	18	6	16	14	8	12	15	15	20	25	29
Linguistics.....	76	51	62	41	46	44	32	49	36	45	46	52	44
Political science/public administration .....	589	480	396	369	333	283	274	327	368	427	488	471	454
Sociology .....	408	325	289	236	166	170	124	147	171	156	163	154	173
Other social sciences.....	233	238	201	204	162	151	139	164	181	170	165	190	176
Non-S&E.....	7,753	6,763	5,899	5,332	4,919	4,566	4,368	4,775	4,861	5,105	4,909	4,786	4,641

## Earned doctoral degrees, by field, sex, and citizenship: Selected years, 1983–2003

Field, sex, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
<b>Female</b>													
All fields .....	6,973	7,889	8,701	9,253	9,149	9,410	10,006	11,185	11,931	12,775	13,072	13,471	13,395
S&E.....	2,894	3,390	3,843	4,325	4,379	4,564	5,170	5,796	6,156	6,564	6,919	7,157	7,153
Engineering.....	42	39	53	84	119	149	249	279	296	374	414	426	410
Aerospace.....	1	0	0	2	3	6	4	5	6	12	12	10	17
Chemical .....	4	4	8	14	29	44	60	51	59	70	61	65	82
Civil .....	7	1	5	10	9	9	37	21	30	36	45	54	59
Electrical.....	12	7	11	10	20	14	29	44	57	79	74	62	43
Industrial .....	2	4	6	4	4	8	10	11	20	26	25	28	22
Materials .....	5	5	7	19	19	32	35	47	42	53	58	49	47
Mechanical.....	5	4	4	6	15	10	19	34	33	28	46	52	34
Other .....	6	14	12	19	20	26	55	66	49	70	93	106	106
Science.....	2,852	3,351	3,790	4,241	4,260	4,415	4,921	5,517	5,860	6,190	6,505	6,731	6,743
Natural sciences.....	1,155	1,443	1,671	1,931	2,036	2,151	2,549	2,712	2,990	3,153	3,318	3,344	3,548
Agricultural sciences.....	33	51	88	100	120	116	156	128	124	112	134	145	151
Biological sciences .....	662	809	944	1,073	1,032	1,077	1,190	1,290	1,449	1,487	1,637	1,649	1,784
Earth, atmospheric, and ocean sciences .....	47	50	47	79	87	82	114	148	112	112	146	137	149
Atmospheric sciences.....	4	3	1	5	3	8	3	6	10	8	11	9	13
Earth sciences.....	32	31	29	44	62	59	75	111	65	65	88	78	84
Oceanography .....	5	10	9	21	17	10	20	21	24	16	28	27	28
Other geosciences.....	6	6	8	9	5	5	16	10	13	23	19	23	24
Mathematics/computer sciences .....	91	118	100	103	94	115	165	176	206	248	225	255	221
Computer sciences.....	4	26	20	27	24	50	72	83	82	116	82	90	84
Mathematics/statistics .....	87	92	80	76	70	65	93	93	124	132	143	165	137
Medical/other life sciences .....	152	201	268	288	379	399	522	558	653	675	704	687	776
Medical sciences.....	33	61	83	80	130	106	158	151	182	204	187	232	262
Other life sciences.....	119	140	185	208	249	293	364	407	471	471	517	455	514
Physical sciences .....	170	214	224	288	324	362	402	412	446	519	472	471	467
Astronomy.....	8	7	7	15	9	9	11	7	20	21	25	24	27
Chemistry.....	129	170	179	235	261	296	342	336	352	409	351	362	365
Physics.....	33	37	38	36	53	56	48	66	71	87	92	79	73
Other physical sciences.....	0	0	0	2	1	1	1	3	3	2	4	6	2
Social/behavioral sciences.....	1,697	1,908	2,119	2,310	2,224	2,264	2,372	2,805	2,870	3,037	3,187	3,387	3,195
Psychology .....	1,007	1,152	1,365	1,470	1,409	1,488	1,538	1,847	1,869	1,991	2,044	2,180	1,998
Social sciences.....	690	756	754	840	815	776	834	958	1,001	1,046	1,143	1,207	1,197
Anthropology .....	131	160	142	172	166	170	130	196	192	196	210	211	206
Area/ethnic studies.....	38	33	48	51	41	39	47	53	58	54	49	50	84
Economics.....	57	82	80	104	95	106	134	117	123	148	124	134	126
History of science.....	5	6	4	6	1	9	8	6	13	16	12	15	7
Linguistics.....	57	48	55	64	61	63	56	67	55	53	80	84	63

**Earned doctoral degrees, by field, sex, and citizenship: Selected years, 1983–2003**

Field, sex, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
Political science/public administration .....	131	125	119	138	140	139	165	175	195	209	241	284	257
Sociology .....	211	209	206	197	209	147	176	177	188	222	252	275	275
Other social sciences.....	60	93	100	108	102	103	118	167	177	148	175	154	179
Non-S&E.....	4,079	4,499	4,858	4,928	4,770	4,846	4,836	5,389	5,775	6,211	6,153	6,314	6,242

NOTES: Total includes unknown sex not shown separately. Medical/other life sciences reported separately from S&E fields in National Science Foundation, Division of Science Resources Statistics (NSF/SRS) higher education publications. For detailed fields, see NSF/SRS, Science and Engineering Doctorate Awards, <http://www.nsf.gov/statistics/nsf05300/htmstart.htm>.

SOURCE: NSF/SRS, Survey of Earned Doctorates, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

*Science and Engineering Indicators 2006*

## Earned doctoral degrees, by field, citizenship, and race/ethnicity: Selected years, 1983–2003

Field, race/ethnicity, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
All races/ethnicities and citizenships													
All fields .....	31,281	31,297	32,370	34,327	37,534	39,800	41,750	42,540	41,090	41,357	40,808	39,964	40,710
S&E.....	19,274	19,663	20,694	22,706	25,061	26,640	27,863	28,653	27,339	27,557	27,160	26,226	26,891
Engineering.....	2,781	3,166	3,712	4,543	5,214	5,698	6,008	6,115	5,330	5,321	5,502	5,071	5,265
Aerospace.....	106	124	142	178	207	228	252	273	206	214	203	208	199
Chemical.....	392	504	584	712	691	737	708	767	674	725	728	705	643
Civil.....	397	391	477	538	575	624	656	655	584	556	594	625	672
Electrical.....	625	716	779	1,137	1,405	1,543	1,731	1,720	1,478	1,544	1,576	1,392	1,463
Industrial.....	86	92	120	162	165	236	284	246	211	176	205	230	211
Materials.....	268	303	392	380	489	535	588	582	469	451	497	396	473
Mechanical.....	379	513	657	760	875	1,030	1,025	1,022	855	864	953	827	814
Other.....	528	523	561	676	807	765	764	850	853	791	746	688	790
Science.....	16,493	16,497	16,982	18,163	19,847	20,942	21,855	22,538	22,009	22,236	21,658	21,155	21,626
Natural sciences.....	9,820	10,163	10,645	11,631	13,042	13,753	14,548	14,871	14,277	14,462	14,138	13,954	14,212
Agricultural sciences.....	1,015	1,110	976	1,086	1,073	968	1,036	982	966	943	853	893	922
Biological sciences.....	3,741	3,793	3,839	4,116	4,649	5,092	5,375	5,789	5,582	5,854	5,690	5,687	5,694
Earth, atmospheric, and ocean sciences.....	624	599	602	723	815	771	780	878	805	758	749	785	783
Atmospheric sciences.....	97	80	87	87	108	99	130	149	124	143	116	117	139
Earth sciences.....	368	385	375	455	560	479	454	489	452	386	393	428	373
Oceanography.....	109	92	111	113	112	125	115	144	130	134	121	128	133
Other geosciences.....	50	42	29	68	35	68	81	96	99	95	119	112	138
Mathematics/computer sciences.....	987	998	1,190	1,471	1,838	2,026	2,187	2,032	1,938	1,909	1,833	1,725	1,860
Computer sciences.....	286	310	450	612	800	880	997	909	855	859	826	807	866
Mathematics/statistics.....	701	688	740	859	1,038	1,146	1,190	1,123	1,083	1,050	1,007	918	994
Medical/other life sciences.....	639	729	800	974	1,041	1,197	1,329	1,421	1,407	1,591	1,620	1,655	1,633
Medical sciences.....	294	367	375	430	456	518	555	545	607	664	647	678	658
Other life sciences.....	345	362	425	544	585	679	774	876	800	927	973	977	975
Physical sciences.....	2,814	2,934	3,238	3,261	3,626	3,699	3,841	3,769	3,579	3,407	3,393	3,209	3,320
Astronomy.....	115	100	100	113	125	145	173	198	159	185	186	144	167
Chemistry.....	1,758	1,836	1,975	1,970	2,194	2,137	2,162	2,148	2,132	1,989	1,980	1,923	2,037
Physics.....	928	980	1,137	1,161	1,286	1,399	1,479	1,401	1,271	1,204	1,197	1,124	1,080
Other physical sciences.....	13	18	26	17	21	18	27	22	17	29	30	18	36
Social/behavioral sciences.....	6,673	6,334	6,337	6,532	6,805	7,189	7,307	7,667	7,732	7,774	7,520	7,201	7,414
Psychology.....	3,347	3,117	3,173	3,208	3,250	3,420	3,429	3,557	3,668	3,618	3,442	3,198	3,275
Social sciences.....	3,326	3,217	3,164	3,324	3,555	3,769	3,878	4,110	4,064	4,156	4,078	4,003	4,139
Anthropology.....	403	377	383	351	374	380	410	469	489	482	450	521	505
Area/ethnic studies.....	119	106	92	93	116	137	121	94	109	127	146	122	106
Economics.....	971	959	960	1,062	1,053	1,067	1,152	1,163	1,075	1,086	1,081	1,023	1,051
History of science.....	13	23	25	20	27	37	41	35	50	42	40	46	46
Linguistics.....	164	176	199	188	227	214	201	244	251	230	230	195	224
Political science/public administration.....	655	666	647	700	740	824	894	975	1,016	987	984	938	1,026
Sociology.....	551	486	449	458	493	535	555	601	572	637	577	565	612
Other social sciences.....	450	424	409	452	525	575	504	529	502	565	570	593	569
Non-S&E.....	12,007	11,634	11,676	11,621	12,473	13,160	13,887	13,887	13,751	13,800	13,648	13,738	13,819

## Earned doctoral degrees, by field, citizenship, and race/ethnicity: Selected years, 1983–2003

Field, race/ethnicity, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
U.S. citizen													
All fields .....	24,393	23,376	22,984	23,402	25,571	26,449	27,741	28,151	27,984	27,978	27,031	25,997	26,413
S&E.....	14,133	13,687	13,572	14,198	15,406	15,812	16,425	17,071	16,884	16,825	16,148	15,465	15,737
Engineering.....	1,164	1,279	1,558	1,864	2,086	2,228	2,386	2,739	2,485	2,221	2,140	1,892	1,898
Aerospace.....	40	53	64	74	103	114	140	155	103	117	94	81	70
Chemical .....	174	240	294	382	348	324	291	321	333	339	329	302	272
Civil .....	154	130	162	188	173	168	206	249	261	221	222	210	239
Electrical.....	259	270	320	440	554	630	683	753	639	532	465	424	403
Industrial.....	27	29	44	51	50	89	108	102	86	67	72	71	54
Materials .....	118	144	176	173	211	228	238	271	225	221	202	164	176
Mechanical.....	145	193	241	259	297	347	383	456	398	341	385	285	287
Other .....	247	220	257	297	350	328	337	432	440	383	371	355	397
Science.....	12,969	12,408	12,014	12,334	13,320	13,584	14,039	14,332	14,399	14,604	14,008	13,573	13,839
Natural sciences.....	7,507	7,434	7,264	7,686	8,218	8,262	8,577	8,724	8,544	8,742	8,517	8,311	8,534
Agricultural sciences.....	649	683	584	606	564	457	492	467	443	447	403	390	443
Biological sciences.....	3,215	3,150	2,981	3,118	3,313	3,449	3,494	3,670	3,660	3,904	3,899	3,796	3,782
Earth, atmospheric, and ocean sciences.....	475	435	410	518	592	463	478	537	475	475	430	458	474
Atmospheric sciences.....	72	54	51	55	56	42	64	83	61	76	55	61	66
Earth sciences.....	284	278	261	335	430	303	284	310	273	255	244	249	244
Oceanography.....	83	71	76	75	79	70	68	80	78	93	68	79	88
Other geosciences.....	36	32	22	53	27	48	62	64	63	51	63	69	76
Mathematics/computer sciences.....	592	566	588	731	850	921	1,038	960	959	906	836	766	854
Computer sciences.....	180	189	243	338	388	425	484	430	420	388	367	355	384
Mathematics/statistics.....	412	377	345	393	462	496	554	530	539	518	469	411	470
Medical/other life sciences.....	499	550	606	729	779	879	938	959	972	1,120	1,088	1,123	1,166
Medical sciences.....	200	236	249	278	286	310	324	308	374	411	387	380	430
Other life sciences.....	299	314	357	451	493	569	614	651	598	709	701	743	736
Physical sciences.....	2,077	2,050	2,095	1,984	2,120	2,093	2,137	2,131	2,035	1,890	1,861	1,778	1,815
Astronomy.....	101	82	72	78	84	106	120	151	111	127	119	104	125
Chemistry.....	1,357	1,345	1,381	1,298	1,351	1,272	1,238	1,234	1,256	1,119	1,127	1,136	1,169
Physics.....	609	616	627	597	671	704	764	731	657	625	602	527	500
Other physical sciences.....	10	7	15	11	14	11	15	15	11	19	13	11	21
Social/behavioral sciences.....	5,462	4,974	4,750	4,648	5,102	5,322	5,462	5,608	5,855	5,862	5,491	5,262	5,305
Psychology.....	3,048	2,804	2,747	2,684	2,953	3,071	3,083	3,036	3,222	3,156	2,958	2,723	2,776
Social sciences.....	2,414	2,170	2,003	1,964	2,149	2,251	2,379	2,572	2,633	2,706	2,533	2,539	2,529
Anthropology.....	352	322	311	278	315	311	330	356	375	387	348	406	407
Area/ethnic studies.....	109	90	81	77	92	105	96	86	91	116	129	97	89
Economics.....	584	522	488	509	451	435	492	487	463	444	399	370	347
History of science.....	12	17	23	16	18	28	31	32	40	32	36	39	35
Linguistics.....	105	107	107	88	116	91	98	126	136	105	107	91	95
Political science/public administration.....	507	473	422	439	502	563	636	730	755	763	711	704	730
Sociology.....	433	375	317	300	324	359	378	415	429	478	448	454	466
Other social sciences.....	312	264	254	257	331	359	318	340	344	381	355	378	360
Non-S&E.....	10,260	9,689	9,412	9,204	10,165	10,637	11,316	11,080	11,100	11,153	10,883	10,532	10,676

**Earned doctoral degrees, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, race/ethnicity, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
<b>White</b>													
All fields .....	21,732	20,771	20,464	20,892	22,419	23,245	23,890	23,181	23,092	22,968	21,930	20,755	20,818
S&E.....	12,772	12,321	12,147	12,724	13,526	13,986	14,166	14,106	14,009	13,862	13,150	12,431	12,510
Engineering.....	1,017	1,098	1,331	1,583	1,707	1,891	1,958	2,151	1,989	1,764	1,644	1,394	1,453
Aerospace.....	35	48	55	66	89	99	116	133	92	103	75	69	56
Chemical.....	149	199	252	328	300	282	242	269	279	268	259	214	203
Civil.....	131	115	140	163	143	147	175	206	219	181	176	170	203
Electrical.....	232	232	256	360	430	507	540	529	472	397	337	280	263
Industrial.....	25	28	39	41	42	67	85	78	74	56	48	53	43
Materials.....	104	127	151	147	179	198	189	226	177	180	158	121	143
Mechanical.....	128	160	203	218	244	303	320	361	322	262	291	212	228
Other.....	213	189	235	260	280	288	291	349	354	317	300	275	314
Science.....	11,755	11,223	10,816	11,141	11,819	12,095	12,208	11,955	12,020	12,098	11,506	11,037	11,057
Natural sciences.....	6,878	6,784	6,566	6,975	7,357	7,373	7,504	7,339	7,190	7,308	7,037	6,824	6,873
Agricultural sciences.....	601	646	541	560	527	426	456	397	385	396	361	347	388
Biological sciences.....	2,965	2,872	2,696	2,832	2,964	3,054	3,020	3,069	3,017	3,196	3,139	3,026	2,970
Earth, atmospheric, and ocean sciences ...	435	409	381	484	546	440	452	476	412	417	385	412	415
Atmospheric sciences.....	64	50	42	52	53	40	62	76	56	70	49	57	62
Earth sciences.....	261	262	247	313	397	286	270	279	233	227	218	228	217
Oceanography.....	76	68	70	68	72	68	65	67	66	83	63	68	73
Other geosciences.....	34	29	22	51	24	46	55	54	57	37	55	59	63
Mathematics/computer sciences.....	536	507	510	647	732	823	923	790	810	747	696	618	670
Computer sciences.....	161	170	215	296	330	378	416	341	336	310	300	266	291
Mathematics/statistics.....	375	337	295	351	402	445	507	449	474	437	396	352	379
Medical/other life sciences.....	448	494	536	675	691	782	806	813	816	941	899	944	935
Medical sciences.....	179	207	216	250	247	275	266	244	300	325	294	289	322
Other life sciences.....	269	287	320	425	444	507	540	569	516	616	605	655	613
Physical sciences.....	1,893	1,856	1,902	1,777	1,897	1,848	1,847	1,794	1,750	1,611	1,557	1,477	1,495
Astronomy.....	94	76	68	73	81	97	109	129	104	111	99	86	99
Chemistry.....	1,252	1,219	1,243	1,167	1,201	1,119	1,065	1,040	1,054	952	936	952	972
Physics.....	538	555	577	526	602	623	660	611	582	531	509	428	407
Other physical sciences.....	9	6	14	11	13	9	13	14	10	17	13	11	17
Social/behavioral sciences.....	4,877	4,439	4,250	4,166	4,462	4,722	4,704	4,616	4,830	4,790	4,469	4,213	4,184
Psychology.....	2,745	2,552	2,476	2,423	2,615	2,747	2,674	2,481	2,667	2,570	2,416	2,188	2,215
Social sciences.....	2,132	1,887	1,774	1,743	1,847	1,975	2,030	2,135	2,163	2,220	2,053	2,025	1,969
Anthropology.....	325	273	269	249	289	286	284	290	319	328	283	322	304
Area/ethnic studies.....	92	82	74	64	75	90	77	69	68	91	97	71	60
Economics.....	536	469	439	461	393	390	426	402	393	375	337	305	289
History of science.....	12	16	21	15	16	23	30	25	35	30	30	37	31
Linguistics.....	88	90	94	82	102	76	87	107	114	93	89	78	79
Political science/public administration....	429	397	369	394	427	492	546	630	624	620	569	562	576
Sociology.....	383	326	281	245	268	303	319	332	334	368	343	343	338
Other social sciences.....	267	234	227	233	277	315	261	280	276	315	305	307	292
Non-S&E.....	8,960	8,450	8,317	8,168	8,893	9,259	9,724	9,075	9,083	9,106	8,780	8,324	8,308

**Earned doctoral degrees, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, race/ethnicity, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
<b>Asian/Pacific Islander</b>													
All fields .....	492	516	541	626	787	876	1,129	1,296	1,304	1,363	1,440	1,439	1,417
S&E.....	361	388	465	500	620	718	906	1,042	1,033	1,046	1,139	1,137	1,104
Engineering.....	66	90	135	173	187	216	254	290	263	240	262	250	206
Aerospace.....	1	3	6	5	9	9	14	8	9	5	10	6	7
Chemical.....	12	22	24	40	27	26	27	17	32	43	37	49	37
Civil.....	11	5	14	14	11	10	15	13	20	18	15	14	10
Electrical.....	13	15	41	48	67	85	92	128	92	79	79	81	76
Industrial.....	0	0	2	8	3	10	10	11	2	5	12	4	4
Materials.....	7	11	15	18	21	18	33	25	27	23	24	24	15
Mechanical.....	9	21	25	25	26	34	37	50	42	39	49	32	26
Other.....	13	13	8	15	23	24	26	38	39	28	36	40	31
Science.....	295	298	330	327	433	502	652	752	770	806	877	887	898
Natural sciences.....	224	228	246	255	338	389	477	555	564	582	653	667	675
Agricultural sciences.....	15	8	17	7	9	9	10	16	21	13	7	9	7
Biological sciences.....	101	106	106	120	159	186	225	255	288	318	369	392	389
Earth, atmospheric, and ocean sciences ...	8	8	9	11	7	6	8	16	15	9	15	11	10
Atmospheric sciences.....	3	2	4	0	0	0	1	3	1	0	2	1	0
Earth sciences.....	3	4	5	9	4	4	4	5	10	5	11	4	6
Oceanography.....	1	1	0	1	1	2	2	2	3	2	0	1	2
Other geosciences.....	1	1	0	1	2	0	1	6	1	2	2	5	2
Mathematics/computer sciences.....	19	16	28	31	55	55	66	75	72	85	64	70	83
Computer sciences.....	6	2	10	18	32	27	42	42	43	41	34	50	45
Mathematics/statistics.....	13	14	18	13	23	28	24	33	29	44	30	20	38
Medical/other life sciences.....	15	14	19	11	23	17	22	42	45	55	73	59	74
Medical sciences.....	7	9	13	7	9	11	14	23	27	33	45	41	45
Other life sciences.....	8	5	6	4	14	6	8	19	18	22	28	18	29
Physical sciences.....	66	76	67	75	85	116	146	151	123	102	125	126	112
Astronomy.....	0	1	1	0	0	2	4	6	2	8	6	10	8
Chemistry.....	39	57	49	42	62	74	90	82	88	49	73	78	65
Physics.....	27	18	17	33	23	40	52	63	33	44	46	38	38
Other physical sciences.....	0	0	0	0	0	0	0	0	0	1	0	0	1
Social/behavioral sciences.....	71	70	84	72	95	113	175	197	206	224	224	220	223
Psychology.....	35	34	38	38	46	52	83	101	110	121	108	113	110
Social sciences.....	36	36	46	34	49	61	92	96	96	103	116	107	113
Anthropology.....	1	7	8	3	2	3	9	8	9	9	14	10	16
Area/ethnic studies.....	1	1	1	1	3	4	2	2	3	5	4	2	5
Economics.....	12	8	18	15	21	18	32	34	20	27	29	28	27
History of science.....	0	0	0	0	0	1	0	1	2	0	1	0	0
Linguistics.....	5	7	3	0	2	5	4	8	5	3	5	5	4
Political science/public administration....	5	7	4	6	11	12	22	23	24	24	24	28	23
Sociology.....	7	2	8	7	6	10	15	8	19	19	24	21	16
Other social sciences.....	5	4	4	2	4	8	8	12	14	16	15	13	22
Non-S&E.....	131	128	76	126	167	158	223	254	271	317	301	302	313

## Earned doctoral degrees, by field, citizenship, and race/ethnicity: Selected years, 1983–2003

Field, race/ethnicity, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
<b>Black</b>													
All fields .....	925	911	768	822	1,009	1,109	1,293	1,335	1,629	1,629	1,614	1,662	1,708
S&E.....	312	310	270	322	402	427	516	581	688	713	691	701	687
Engineering.....	19	19	12	24	43	41	53	83	85	74	82	76	69
Aerospace.....	1	1	1	1	1	3	1	3	1	4	0	2	1
Chemical.....	2	4	4	2	4	4	2	12	9	8	16	10	8
Civil.....	4	2	1	2	8	3	7	9	5	5	7	10	6
Electrical.....	2	6	0	8	16	13	20	27	26	19	20	15	19
Industrial.....	1	1	0	2	1	9	7	7	7	4	6	4	2
Materials.....	4	1	2	0	1	3	5	3	5	4	5	5	3
Mechanical.....	4	1	2	5	3	2	7	10	10	17	17	16	9
Other.....	1	3	2	4	9	4	4	12	22	13	11	14	21
Science.....	293	291	258	298	359	386	463	498	603	639	609	625	618
Natural sciences.....	90	96	106	111	133	162	205	225	267	271	274	286	283
Agricultural sciences.....	12	5	7	6	6	5	9	14	16	8	9	8	12
Biological sciences.....	37	44	45	46	51	64	90	101	109	110	124	114	100
Earth, atmospheric, and ocean sciences ...	1	2	1	3	2	2	2	4	11	7	5	5	15
Atmospheric sciences.....	1	1	1	0	0	0	0	0	1	1	0	1	1
Earth sciences.....	0	0	0	1	1	2	0	2	4	1	2	2	4
Oceanography.....	0	0	0	1	1	0	0	1	3	1	3	1	4
Other geosciences.....	0	1	0	1	0	0	2	1	3	4	0	1	6
Mathematics/computer sciences.....	6	5	12	7	14	10	13	10	26	27	30	30	31
Computer sciences.....	3	2	2	1	5	5	9	4	16	13	13	17	17
Mathematics/statistics.....	3	3	10	6	9	5	4	6	10	14	17	13	14
Medical/other life sciences.....	15	17	25	24	35	52	55	51	51	67	60	67	75
Medical sciences.....	4	7	9	9	16	18	23	16	17	29	27	26	27
Other life sciences.....	11	10	16	15	19	34	32	35	34	38	33	41	48
Physical sciences.....	19	23	16	25	25	29	36	45	54	52	46	62	50
Astronomy.....	0	0	2	0	0	2	1	2	2	1	1	1	1
Chemistry.....	11	19	11	20	19	19	27	31	46	36	36	41	35
Physics.....	8	4	3	5	6	7	8	12	6	15	9	20	12
Other physical sciences.....	0	0	0	0	0	1	0	0	0	0	0	0	2
Social/behavioral sciences.....	203	195	152	187	226	224	258	273	336	368	335	339	335
Psychology.....	110	100	88	96	125	116	143	142	168	184	169	163	162
Social sciences.....	93	95	64	91	101	108	115	131	168	184	166	176	173
Anthropology.....	7	9	7	7	6	8	5	11	12	19	10	21	21
Area/ethnic studies.....	8	2	5	6	8	7	9	9	12	11	17	11	10
Economics.....	13	9	8	8	11	15	14	14	22	14	8	13	9
History of science.....	0	0	2	0	0	1	0	3	1	1	1	0	0
Linguistics.....	4	2	2	3	3	5	1	2	3	1	4	1	0
Political science/public administration....	28	34	21	26	29	32	39	31	52	58	65	61	67
Sociology.....	22	24	10	26	20	23	25	37	40	52	40	44	46
Other social sciences.....	11	15	9	15	24	17	22	24	26	28	21	25	20
Non-S&E.....	613	601	498	500	607	682	777	754	941	916	923	961	1,021

**Earned doctoral degrees, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, race/ethnicity, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
Hispanic													
All fields .....	542	561	617	582	732	833	922	1,063	1,184	1,180	1,127	1,237	1,270
S&E.....	247	263	319	323	423	463	517	603	685	531	608	544	692
Engineering.....	18	16	24	33	49	56	61	82	71	69	73	87	90
Aerospace.....	0	0	1	1	0	3	7	4	0	3	5	2	4
Chemical.....	4	2	7	5	10	10	12	6	5	13	5	16	14
Civil.....	5	6	1	4	5	7	7	10	11	8	8	7	11
Electrical.....	3	1	4	10	12	16	14	23	28	19	15	28	21
Industrial.....	0	0	1	0	3	3	4	4	2	0	2	5	2
Materials.....	1	0	2	1	5	6	5	10	7	7	8	7	9
Mechanical.....	0	3	4	3	8	3	5	13	8	10	17	10	12
Other.....	5	4	4	9	6	8	7	12	10	9	13	12	17
Science.....	229	247	295	290	374	407	456	521	614	462	535	457	602
Natural sciences.....	85	114	139	150	181	213	229	280	303	318	280	301	307
Agricultural sciences.....	2	10	12	12	7	14	10	14	10	17	15	17	16
Biological sciences.....	39	49	52	58	79	93	104	131	155	154	149	161	157
Earth, atmospheric, and ocean sciences ...	9	4	3	6	12	8	7	16	19	18	11	14	13
Atmospheric sciences.....	1	0	1	1	0	2	0	1	3	2	0	1	0
Earth sciences.....	3	3	1	4	10	5	4	10	10	8	5	4	3
Oceanography.....	4	0	1	1	1	0	1	4	5	5	0	6	7
Other geosciences.....	1	1	0	0	1	1	2	1	1	3	6	3	3
Mathematics/computer sciences.....	4	12	13	12	17	14	18	32	24	24	20	24	22
Computer sciences.....	0	5	4	4	11	5	6	15	12	11	6	13	8
Mathematics/statistics.....	4	7	9	8	6	9	12	17	12	13	14	11	14
Medical/other life sciences.....	6	13	11	10	12	19	29	29	39	33	24	29	38
Medical sciences.....	4	5	5	6	3	3	12	14	22	18	12	13	18
Other life sciences.....	2	8	6	4	9	16	17	15	17	15	12	16	20
Physical sciences.....	25	26	48	52	54	65	61	58	56	72	61	56	61
Astronomy.....	0	0	0	1	1	1	3	3	1	1	7	3	3
Chemistry.....	20	14	40	40	39	43	38	36	41	49	39	35	38
Physics.....	5	12	8	11	14	21	20	19	14	21	15	18	20
Other physical sciences.....	0	0	0	0	0	0	0	0	0	1	0	0	0
Social/behavioral sciences.....	144	133	156	140	193	194	227	241	311	144	255	156	295
Psychology.....	85	64	92	87	113	120	138	161	205	203	160	180	161
Social sciences.....	59	69	64	53	80	74	89	80	106	93	95	114	134
Anthropology.....	7	14	14	8	10	11	19	16	10	10	17	22	32
Area/ethnic studies.....	1	2	0	3	4	2	2	1	3	5	4	5	7
Economics.....	8	14	11	12	10	10	12	18	18	16	11	13	12
History of science.....	0	0	0	1	0	3	1	0	0	1	2	1	1
Linguistics.....	3	3	5	2	6	2	5	5	11	5	2	4	5
Political science/public administration....	18	13	16	7	18	19	21	14	27	25	19	33	29
Sociology.....	10	16	9	17	21	16	13	17	24	24	33	21	39
Other social sciences.....	12	7	9	3	11	11	16	9	13	7	7	15	9
Non-S&E.....	295	298	298	259	309	370	405	460	499	649	519	693	578

**Earned doctoral degrees, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, race/ethnicity, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
<b>American Indian/Alaska Native</b>													
All fields .....	81	96	115	94	130	120	148	167	214	169	149	147	133
S&E.....	32	43	56	56	61	49	77	85	120	92	78	70	73
Engineering.....	0	1	7	7	6	2	9	17	12	8	7	7	10
Chemical .....	0	0	1	1	1	1	2	4	2	1	1	2	1
Civil .....	0	0	1	1	1	0	0	2	2	1	0	0	1
Electrical.....	0	1	3	0	2	0	1	5	1	0	1	0	5
Industrial .....	0	0	0	0	0	0	1	0	0	0	1	1	0
Materials .....	0	0	0	4	1	0	0	0	2	0	1	1	0
Mechanical.....	0	0	1	0	1	0	2	6	2	3	1	1	0
Other .....	0	0	1	1	0	1	3	0	3	3	2	2	3
Science.....	32	42	49	49	55	47	68	68	108	84	71	63	63
Natural sciences.....	17	23	26	30	33	25	36	32	44	42	34	28	25
Agricultural sciences.....	1	4	2	2	4	1	2	5	1	4	0	2	4
Biological sciences.....	4	13	11	7	10	7	15	7	20	17	15	12	11
Earth, atmospheric, and ocean sciences ...	2	1	0	6	3	4	0	2	6	5	0	0	2
Atmospheric sciences.....	0	0	0	1	0	0	0	0	0	0	0	0	0
Earth sciences.....	1	1	0	3	2	3	0	0	6	4	0	0	1
Oceanography .....	1	0	0	2	1	0	0	2	0	0	0	0	1
Other geosciences.....	0	0	0	0	0	1	0	0	0	1	0	0	0
Mathematics/computer sciences .....	1	0	3	2	1	2	2	2	2	3	1	4	4
Computer sciences.....	1	0	3	2	1	1	0	1	1	1	0	1	2
Mathematics/statistics .....	0	0	0	0	0	1	2	1	1	2	1	3	2
Medical/other life sciences .....	3	2	3	3	5	6	9	6	6	4	6	3	2
Medical sciences.....	0	2	1	2	3	1	1	2	0	2	2	1	1
Other life sciences.....	3	0	2	1	2	5	8	4	6	2	4	2	1
Physical sciences .....	6	3	7	10	10	5	8	10	9	9	12	7	2
Astronomy .....	1	0	0	2	0	1	0	1	1	1	1	0	0
Chemistry.....	3	2	6	5	9	2	6	6	5	7	11	5	2
Physics.....	2	1	1	3	1	2	2	2	3	1	0	2	0
Other physical sciences.....	0	0	0	0	0	0	0	1	0	0	0	0	0
Social/behavioral sciences.....	15	19	23	19	22	22	32	36	64	42	37	35	38
Psychology .....	9	10	16	11	13	15	14	18	35	22	17	15	22
Social sciences.....	6	9	7	8	9	7	18	18	29	20	20	20	16
Anthropology .....	2	3	1	1	1	3	5	3	8	5	8	6	2
Area/ethnic studies.....	2	0	1	1	0	1	1	4	3	1	2	2	2
Economics.....	0	2	0	1	1	0	2	1	1	1	2	0	1
Linguistics.....	1	1	0	0	0	1	0	1	1	0	0	0	1
Political science/public administration....	1	1	2	2	3	0	2	4	7	4	5	3	7
Sociology .....	0	1	2	1	2	0	1	4	4	6	2	7	0
Other social sciences.....	0	1	1	2	2	2	7	1	5	3	1	2	3
Non-S&E.....	49	53	59	38	69	71	71	82	94	77	71	77	60

**Earned doctoral degrees, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, race/ethnicity, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
Other/unknown race/ethnicity													
All fields .....	621	521	479	386	494	266	359	1,109	561	669	771	757	1,067
S&E.....	409	362	315	273	374	169	243	654	349	429	482	444	671
Engineering.....	44	55	49	44	94	22	51	116	65	66	72	78	70
Aerospace.....	3	1	1	1	4	0	2	7	1	2	4	2	2
Chemical .....	7	13	6	6	6	1	6	13	6	6	11	11	9
Civil .....	3	2	5	4	5	1	2	9	4	8	16	9	8
Electrical.....	9	15	16	14	27	9	16	41	20	18	13	20	19
Industrial .....	1	0	2	0	1	0	1	2	1	2	3	4	3
Materials .....	2	5	6	3	4	3	6	7	7	7	6	6	6
Mechanical .....	4	8	6	8	15	5	12	16	14	10	10	14	12
Other .....	15	11	7	8	32	3	6	21	12	13	9	12	11
Science.....	365	307	266	229	280	147	192	538	284	363	410	366	601
Natural sciences .....	213	189	181	165	176	100	126	293	176	221	239	205	371
Agricultural sciences.....	18	10	5	19	11	2	5	21	10	9	11	7	16
Biological sciences .....	69	66	71	55	50	45	40	107	71	109	103	91	155
Earth, atmospheric, and ocean sciences ...	20	11	16	8	22	3	9	23	12	19	14	16	19
Atmospheric sciences.....	3	1	3	1	3	0	1	3	0	3	4	1	3
Earth sciences.....	16	8	8	5	16	3	6	14	10	10	8	11	13
Oceanography .....	1	2	5	2	3	0	0	4	1	2	2	3	1
Other geosciences.....	0	0	0	0	0	0	2	2	1	4	0	1	2
Mathematics/computer sciences .....	26	26	22	32	31	17	16	51	25	20	25	20	44
Computer sciences.....	9	10	9	17	9	9	11	27	12	12	14	8	21
Mathematics/statistics .....	17	16	13	15	22	8	5	24	13	8	11	12	23
Medical/other life sciences .....	12	10	12	6	13	3	17	18	15	20	26	21	42
Medical sciences.....	6	6	5	4	8	2	8	9	8	4	7	10	17
Other life sciences.....	6	4	7	2	5	1	9	9	7	16	19	11	25
Physical sciences .....	68	66	55	45	49	30	39	73	43	44	60	50	95
Astronomy .....	6	5	1	2	2	3	3	10	1	5	5	4	14
Chemistry.....	32	34	32	24	21	15	12	39	22	26	32	25	57
Physics.....	29	26	21	19	25	11	22	24	19	13	23	21	23
Other physical sciences.....	1	1	1	0	1	1	2	0	1	0	0	0	1
Social/behavioral sciences.....	152	118	85	64	104	47	66	245	108	142	171	161	230
Psychology .....	64	44	37	29	41	21	31	133	37	56	88	64	106
Social sciences.....	88	74	48	35	63	26	35	112	71	86	83	97	124
Anthropology .....	10	16	12	10	7	0	8	28	17	16	16	25	32
Area/ethnic studies.....	5	3	0	2	2	1	5	1	2	3	5	6	5
Economics.....	15	20	12	12	15	2	6	18	9	11	12	11	9
History of science.....	0	1	0	0	2	0	0	3	2	0	2	1	3
Linguistics.....	4	4	3	1	3	2	1	3	2	3	7	3	6
Political science/public administration....	26	21	10	4	14	8	6	28	21	32	29	17	28
Sociology .....	11	6	7	4	7	7	5	17	8	9	6	18	27
Other social sciences.....	17	3	4	2	13	6	4	14	10	12	6	16	14
Non-S&E.....	212	159	164	113	120	97	116	455	212	240	289	313	396

**Earned doctoral degrees, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, race/ethnicity, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
U.S. permanent resident													
All fields .....	1,274	1,324	1,578	1,626	1,857	2,259	4,317	2,931	2,308	1,950	1,838	1,649	1,631
S&E.....	934	966	1,129	1,151	1,345	1,701	3,614	2,350	1,730	1,484	1,347	1,234	1,157
Engineering.....	319	315	355	365	388	469	956	593	403	350	299	271	265
Aerospace.....	13	17	8	8	11	6	13	13	9	10	8	10	10
Chemical.....	41	52	56	62	51	53	90	88	38	43	29	34	20
Civil.....	33	40	41	59	40	59	103	78	51	40	47	37	30
Electrical.....	90	83	73	99	132	165	288	187	127	116	95	83	91
Industrial.....	18	9	13	8	18	16	41	17	13	10	15	10	16
Materials.....	28	21	38	21	29	39	114	44	35	23	23	10	24
Mechanical.....	47	58	67	66	62	87	180	82	65	55	42	57	45
Other.....	49	35	59	42	45	44	127	84	65	53	40	30	29
Science.....	615	651	774	786	957	1,232	2,658	1,757	1,327	1,134	1,048	963	892
Natural sciences.....	404	419	503	523	651	868	2,215	1,363	1,023	856	773	706	649
Agricultural sciences.....	36	43	48	45	56	49	106	83	51	55	28	31	34
Biological sciences.....	114	108	160	182	211	303	835	586	464	364	344	315	265
Earth, atmospheric, and ocean sciences.....	30	30	25	29	26	41	116	70	51	35	37	36	38
Atmospheric sciences.....	6	5	2	5	4	8	29	19	16	10	6	7	12
Earth sciences.....	13	21	17	11	18	19	64	39	22	15	15	17	12
Oceanography.....	6	1	4	9	3	8	17	7	9	4	7	11	7
Other geosciences.....	5	3	2	4	1	6	6	5	4	6	9	1	7
Mathematics/computer sciences.....	73	66	83	93	118	178	349	189	138	125	111	95	102
Computer sciences.....	27	24	32	58	63	84	132	90	72	69	56	64	56
Mathematics/statistics.....	46	42	51	35	55	94	217	99	66	56	55	31	46
Medical/other life sciences.....	31	35	40	27	60	60	105	69	77	75	69	68	59
Medical sciences.....	22	28	25	20	45	34	59	35	38	40	43	39	26
Other life sciences.....	9	7	15	7	15	26	46	34	39	35	26	29	33
Physical sciences.....	120	137	147	147	180	237	704	366	242	202	184	161	151
Astronomy.....	2	2	1	4	2	5	21	7	6	12	4	5	5
Chemistry.....	69	87	91	85	110	128	386	205	150	122	103	93	93
Physics.....	49	46	55	57	68	102	295	152	85	67	75	62	52
Other physical sciences.....	0	2	0	1	0	2	2	2	1	1	2	1	1
Social/behavioral sciences.....	211	232	271	263	306	364	443	394	304	278	275	257	243
Psychology.....	64	59	59	54	65	90	101	89	70	75	75	71	70
Social sciences.....	147	173	212	209	241	274	342	305	234	203	200	186	173
Anthropology.....	10	15	19	14	16	23	28	20	26	24	21	24	15
Area/ethnic studies.....	1	4	2	2	4	4	10	2	3	2	3	6	4
Economics.....	68	64	85	66	77	77	134	103	80	58	61	55	59
History of science.....	0	1	0	0	1	0	2	1	2	3	3	0	1
Linguistics.....	6	15	10	23	19	26	20	33	20	14	16	18	19
Political science/public administration.....	25	28	39	49	50	55	53	59	50	39	40	28	30
Sociology.....	17	17	29	26	41	36	51	46	30	37	23	22	21
Other social sciences.....	20	29	28	29	33	53	44	41	23	26	33	33	24
Non-S&E.....	340	358	449	475	512	558	703	581	578	466	491	415	474

**Earned doctoral degrees, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, race/ethnicity, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
Temporary resident													
All fields .....	4,540	5,253	5,668	6,686	9,381	9,973	8,830	9,193	9,057	9,663	9,827	9,723	10,585
S&E.....	3,530	4,160	4,601	5,553	7,858	8,353	7,252	7,782	7,524	7,966	8,279	8,010	8,714
Engineering.....	1,180	1,422	1,540	1,948	2,646	2,792	2,527	2,555	2,192	2,452	2,787	2,647	2,909
Aerospace.....	50	51	59	84	91	99	94	97	82	74	87	106	111
Chemical.....	161	201	217	238	283	338	318	343	282	307	335	326	337
Civil.....	197	207	237	263	355	380	337	310	253	280	299	348	386
Electrical.....	250	311	312	499	694	705	712	712	637	785	933	823	920
Industrial.....	38	48	57	91	94	125	131	118	108	94	109	134	137
Materials.....	107	127	159	155	241	251	224	244	194	181	249	196	259
Mechanical.....	174	239	303	359	496	554	439	449	354	433	494	447	447
Other.....	203	238	196	259	392	340	272	282	282	298	281	267	312
Science.....	2,350	2,738	3,061	3,605	5,212	5,561	4,725	5,227	5,332	5,514	5,492	5,363	5,805
Natural sciences.....	1,651	1,949	2,269	2,644	3,979	4,281	3,498	4,073	4,175	4,271	4,188	4,166	4,390
Agricultural sciences.....	311	355	295	362	443	449	429	392	459	415	359	401	392
Biological sciences.....	325	425	498	609	1,065	1,249	970	1,322	1,287	1,385	1,242	1,291	1,401
Earth, atmospheric, and ocean sciences.....	103	115	124	122	186	236	173	231	242	203	252	250	228
Atmospheric sciences.....	17	20	26	23	41	44	35	42	42	47	49	45	57
Earth sciences.....	57	72	75	72	110	141	97	122	142	99	125	145	107
Oceanography.....	20	17	20	19	30	39	28	47	31	28	36	28	29
Other geosciences.....	9	6	3	8	5	12	13	20	27	29	42	32	35
Mathematics/computer sciences.....	282	329	446	524	849	867	749	771	774	806	796	789	819
Computer sciences.....	73	89	144	178	340	349	365	330	330	363	360	349	379
Mathematics/statistics.....	209	240	302	346	509	518	384	441	444	443	436	440	440
Medical/other life sciences.....	87	99	98	134	172	215	246	273	286	306	320	322	326
Medical sciences.....	65	75	71	96	115	153	153	158	160	164	173	198	169
Other life sciences.....	22	24	27	38	57	62	93	115	126	142	147	124	157
Physical sciences.....	543	626	808	893	1,264	1,265	931	1,084	1,127	1,156	1,219	1,113	1,224
Astronomy.....	12	14	24	26	37	34	28	37	37	42	53	31	34
Chemistry.....	283	331	401	462	694	676	493	599	622	648	675	596	689
Physics.....	245	277	380	403	527	551	400	446	463	458	482	481	494
Other physical sciences.....	3	4	3	2	6	4	10	2	5	8	9	5	7
Social/behavioral sciences.....	699	789	792	961	1,233	1,280	1,227	1,154	1,157	1,243	1,304	1,197	1,415
Psychology.....	81	81	86	107	134	150	165	137	153	164	153	156	197
Social sciences.....	618	708	706	854	1,099	1,130	1,062	1,017	1,004	1,079	1,151	1,041	1,218
Anthropology.....	28	26	26	33	38	41	41	67	62	62	68	71	61
Area/ethnic studies.....	1	9	4	4	18	22	11	3	8	6	11	10	10
Economics.....	278	329	312	388	512	521	500	494	492	537	579	528	599
History of science.....	0	4	2	3	7	8	7	1	4	4	1	5	9
Linguistics.....	45	47	67	57	86	86	78	79	86	101	102	74	100
Political science/public administration.....	95	114	127	144	177	166	172	134	157	138	172	144	205
Sociology.....	76	73	69	105	119	133	116	114	77	95	80	69	88
Other social sciences.....	95	106	99	120	142	153	137	125	118	136	138	140	146
Non-S&E.....	1,010	1,093	1,067	1,133	1,523	1,620	1,578	1,411	1,533	1,697	1,548	1,713	1,871

**Earned doctoral degrees, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, race/ethnicity, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
Unknown citizenship													
All fields .....	1,074	1,344	2,140	2,613	725	1,119	862	2,265	1,741	1,766	2,112	2,595	2,081
S&E.....	677	850	1,392	1,804	452	774	572	1,450	1,201	1,282	1,386	1,517	1,283
Engineering.....	118	150	259	366	94	209	139	228	250	298	276	261	193
Aerospace.....	3	3	11	12	2	9	5	8	12	13	14	11	8
Chemical .....	16	11	17	30	9	22	9	15	21	36	35	43	14
Civil .....	13	14	37	28	7	17	10	18	19	15	26	30	17
Electrical.....	26	52	74	99	25	43	48	68	75	111	83	62	49
Industrial.....	3	6	6	12	3	6	4	9	4	5	9	15	4
Materials .....	15	11	19	31	8	17	12	23	15	26	23	26	14
Mechanical.....	13	23	46	76	20	42	23	35	38	35	32	38	35
Other .....	29	30	49	78	20	53	28	52	66	57	54	36	52
Science.....	559	700	1,133	1,438	358	565	433	1,222	951	984	1,110	1,256	1,090
Natural sciences.....	258	361	609	778	194	342	258	711	535	593	660	771	639
Agricultural sciences.....	19	29	49	73	10	13	9	40	13	26	63	71	53
Biological sciences .....	87	110	200	207	60	91	76	211	171	201	205	285	246
Earth, atmospheric, and ocean sciences .....	16	19	43	54	11	31	13	40	37	45	30	41	43
Atmospheric sciences.....	2	1	8	4	7	5	2	5	5	10	6	4	4
Earth sciences.....	14	14	22	37	2	16	9	18	15	17	9	17	10
Oceanography .....	0	3	11	10	0	8	2	10	12	9	10	10	9
Other geosciences.....	0	1	2	3	2	2	0	7	5	9	5	10	20
Mathematics/computer sciences .....	40	37	73	123	21	60	51	112	67	72	90	75	85
Computer sciences.....	6	8	31	38	9	22	16	59	33	39	43	39	47
Mathematics/statistics.....	34	29	42	85	12	38	35	53	34	33	47	36	38
Medical/other life sciences .....	22	45	56	84	30	43	40	120	72	90	143	142	82
Medical sciences.....	7	28	30	36	10	21	19	44	35	49	44	61	33
Other life sciences.....	15	17	26	48	20	22	21	76	37	41	99	81	49
Physical sciences .....	74	121	188	237	62	104	69	188	175	159	129	157	130
Astronomy .....	0	2	3	5	2	0	4	3	5	4	10	4	3
Chemistry.....	49	73	102	125	39	61	45	110	104	100	75	98	86
Physics.....	25	41	75	104	20	42	20	72	66	54	38	54	34
Other physical sciences.....	0	5	8	3	1	1	0	3	0	1	6	1	7
Social/behavioral sciences.....	301	339	524	660	164	223	175	511	416	391	450	485	451
Psychology .....	154	173	281	363	98	109	80	295	223	223	256	248	232
Social sciences.....	147	166	243	297	66	114	95	216	193	168	194	237	219
Anthropology .....	13	14	27	26	5	5	11	26	26	9	13	20	22
Area/ethnic studies.....	8	3	5	10	2	6	4	3	7	3	3	9	3
Economics.....	41	44	75	99	13	34	26	79	40	47	42	70	46
History of science.....	1	1	0	1	1	1	1	1	4	3	0	2	1

**Earned doctoral degrees, by field, citizenship, and race/ethnicity: Selected years, 1983–2003**

Field, race/ethnicity, and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
Linguistics.....	8	7	15	20	6	11	5	6	9	10	5	12	10
Political science/public administration .....	28	51	59	68	11	40	33	52	54	47	61	62	61
Sociology.....	25	21	34	27	9	7	10	26	36	27	26	20	37
Other social sciences.....	23	25	28	46	19	10	5	23	17	22	44	42	39
Non-S&E.....	397	494	748	809	273	345	290	815	540	484	726	1,078	798

NOTES: Medical/other life sciences reported separately from S&E fields in National Science Foundation, Division of Science Resources Statistics (NSF/SRS), higher education publications. For detailed fields, see NSF/SRS, Science and Engineering Doctorate Awards, <http://www.nsf.gov/statistics/nsf05300/htmstart.htm>.

SOURCE: NSF/SRS, Survey of Earned Doctorates, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

**Earned doctoral degrees, by field and citizenship: 1983–2003**

Field and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
<b>All citizenships</b>													
All fields .....	31,281	31,297	32,370	34,327	37,534	39,800	41,750	42,540	41,090	41,357	40,808	39,964	40,710
S&E.....	19,274	19,663	20,694	22,706	25,061	26,640	27,863	28,653	27,339	27,557	27,160	26,226	26,891
Engineering.....	2,781	3,166	3,712	4,543	5,214	5,698	6,008	6,115	5,330	5,321	5,502	5,071	5,265
Science.....	16,493	16,497	16,982	18,163	19,847	20,942	21,855	22,538	22,009	22,236	21,658	21,155	21,626
Natural sciences .....	9,820	10,163	10,645	11,631	13,042	13,753	14,548	14,871	14,277	14,462	14,138	13,954	14,212
Agricultural sciences.....	1,015	1,110	976	1,086	1,073	968	1,036	982	966	943	853	893	922
Biological sciences .....	3,741	3,793	3,839	4,116	4,649	5,092	5,375	5,789	5,582	5,854	5,690	5,687	5,694
Computer sciences .....	286	310	450	612	800	880	997	909	855	859	826	807	866
Earth, atmospheric, and ocean sciences.....	624	599	602	723	815	771	780	878	805	758	749	785	783
Mathematics.....	701	688	740	859	1,038	1,146	1,190	1,123	1,083	1,050	1,007	918	994
Medical/other life sciences.....	639	729	800	974	1,041	1,197	1,329	1,421	1,407	1,591	1,620	1,655	1,633
Physical sciences.....	2,814	2,934	3,238	3,261	3,626	3,699	3,841	3,769	3,579	3,407	3,393	3,209	3,320
Social/behavioral sciences.....	6,673	6,334	6,337	6,532	6,805	7,189	7,307	7,667	7,732	7,774	7,520	7,201	7,414
Psychology .....	3,347	3,117	3,173	3,208	3,250	3,420	3,429	3,557	3,668	3,618	3,442	3,198	3,275
Social sciences .....	3,326	3,217	3,164	3,324	3,555	3,769	3,878	4,110	4,064	4,156	4,078	4,003	4,139
Non-S&E .....	12,007	11,634	11,676	11,621	12,473	13,160	13,887	13,887	13,751	13,800	13,648	13,738	13,819
<b>U.S. citizen</b>													
All fields .....	24,393	23,376	22,984	23,402	25,571	26,449	27,741	28,151	27,984	27,978	27,031	25,997	26,413
S&E.....	14,133	13,687	13,572	14,198	15,406	15,812	16,425	17,071	16,884	16,825	16,148	15,465	15,737
Engineering.....	1,164	1,279	1,558	1,864	2,086	2,228	2,386	2,739	2,485	2,221	2,140	1,892	1,898
Science.....	12,969	12,408	12,014	12,334	13,320	13,584	14,039	14,332	14,399	14,604	14,008	13,573	13,839
Natural sciences .....	7,507	7,434	7,264	7,686	8,218	8,262	8,577	8,724	8,544	8,742	8,517	8,311	8,534
Agricultural sciences.....	649	683	584	606	564	457	492	467	443	447	403	390	443
Biological sciences .....	3,215	3,150	2,981	3,118	3,313	3,449	3,494	3,670	3,660	3,904	3,899	3,796	3,782
Computer sciences .....	180	189	243	338	388	425	484	430	420	388	367	355	384
Earth, atmospheric, and ocean sciences .....	475	435	410	518	592	463	478	537	475	475	430	458	474
Mathematics.....	412	377	345	393	462	496	554	530	539	518	469	411	470
Medical/other life sciences .....	499	550	606	729	779	879	938	959	972	1,120	1,088	1,123	1,166
Physical sciences .....	2,077	2,050	2,095	1,984	2,120	2,093	2,137	2,131	2,035	1,890	1,861	1,778	1,815
Social/behavioral sciences.....	5,462	4,974	4,750	4,648	5,102	5,322	5,462	5,608	5,855	5,862	5,491	5,262	5,305
Psychology .....	3,048	2,804	2,747	2,684	2,953	3,071	3,083	3,036	3,222	3,156	2,958	2,723	2,776
Social sciences.....	2,414	2,170	2,003	1,964	2,149	2,251	2,379	2,572	2,633	2,706	2,533	2,539	2,529
Non-S&E.....	10,260	9,689	9,412	9,204	10,165	10,637	11,316	11,080	11,100	11,153	10,883	10,532	10,676
<b>Permanent resident</b>													
All fields .....	1,274	1,324	1,578	1,626	1,857	2,259	4,317	2,931	2,308	1,950	1,838	1,649	1,631
S&E.....	934	966	1,129	1,151	1,345	1,701	3,614	2,350	1,730	1,484	1,347	1,234	1,157
Engineering.....	319	315	355	365	388	469	956	593	403	350	299	271	265
Science.....	615	651	774	786	957	1,232	2,658	1,757	1,327	1,134	1,048	963	892
Natural sciences .....	404	419	503	523	651	868	2,215	1,363	1,023	856	773	706	649
Agricultural sciences.....	36	43	48	45	56	49	106	83	51	55	28	31	34
Biological sciences .....	114	108	160	182	211	303	835	586	464	364	344	315	265
Computer sciences .....	27	24	32	58	63	84	132	90	72	69	56	64	56
Earth, atmospheric, and ocean sciences .....	30	30	25	29	26	41	116	70	51	35	37	36	38
Mathematics.....	46	42	51	35	55	94	217	99	66	56	55	31	46

**Earned doctoral degrees, by field and citizenship: 1983–2003**

Field and citizenship	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
Medical/other life sciences .....	31	35	40	27	60	60	105	69	77	75	69	68	59
Physical sciences .....	120	137	147	147	180	237	704	366	242	202	184	161	151
Social/behavioral sciences.....	211	232	271	263	306	364	443	394	304	278	275	257	243
Psychology .....	64	59	59	54	65	90	101	89	70	75	75	71	70
Social sciences.....	147	173	212	209	241	274	342	305	234	203	200	186	173
Non-S&E.....	340	358	449	475	512	558	703	581	578	466	491	415	474
Temporary resident													
All fields .....	4,540	5,253	5,668	6,686	9,381	9,973	8,830	9,193	9,057	9,663	9,827	9,723	10,585
S&E.....	3,530	4,160	4,601	5,553	7,858	8,353	7,252	7,782	7,524	7,966	8,279	8,010	8,714
Engineering.....	1,180	1,422	1,540	1,948	2,646	2,792	2,527	2,555	2,192	2,452	2,787	2,647	2,909
Science.....	2,350	2,738	3,061	3,605	5,212	5,561	4,725	5,227	5,332	5,514	5,492	5,363	5,805
Natural sciences .....	1,651	1,949	2,269	2,644	3,979	4,281	3,498	4,073	4,175	4,271	4,188	4,166	4,390
Agricultural sciences.....	311	355	295	362	443	449	429	392	459	415	359	401	392
Biological sciences .....	325	425	498	609	1,065	1,249	970	1,322	1,287	1,385	1,242	1,291	1,401
Computer sciences.....	73	89	144	178	340	349	365	330	330	363	360	349	379
Earth, atmospheric, and ocean sciences .....	103	115	124	122	186	236	173	231	242	203	252	250	228
Mathematics.....	209	240	302	346	509	518	384	441	444	443	436	440	440
Medical/other life sciences .....	87	99	98	134	172	215	246	273	286	306	320	322	326
Physical sciences .....	543	626	808	893	1,264	1,265	931	1,084	1,127	1,156	1,219	1,113	1,224
Social/behavioral sciences.....	699	789	792	961	1,233	1,280	1,227	1,154	1,157	1,243	1,304	1,197	1,415
Psychology .....	81	81	86	107	134	150	165	137	153	164	153	156	197
Social sciences.....	618	708	706	854	1,099	1,130	1,062	1,017	1,004	1,079	1,151	1,041	1,218
Non-S&E.....	1,010	1,093	1,067	1,133	1,523	1,620	1,578	1,411	1,533	1,697	1,548	1,713	1,871
Citizenship unknown													
All fields .....	1,074	1,344	2,140	2,613	725	1,119	862	2,265	1,741	1,766	2,112	2,595	2,081
S&E.....	677	850	1,392	1,804	452	774	572	1,450	1,201	1,282	1,386	1,517	1,283
Engineering.....	118	150	259	366	94	209	139	228	250	298	276	261	193
Science.....	559	700	1,133	1,438	358	565	433	1,222	951	984	1,110	1,256	1,090
Natural sciences .....	258	361	609	778	194	342	258	711	535	593	660	771	639
Agricultural sciences.....	19	29	49	73	10	13	9	40	13	26	63	71	53
Biological sciences .....	87	110	200	207	60	91	76	211	171	201	205	285	246
Computer sciences.....	6	8	31	38	9	22	16	59	33	39	43	39	47
Earth, atmospheric, and ocean sciences .....	16	19	43	54	11	31	13	40	37	45	30	41	43
Mathematics.....	34	29	42	85	12	38	35	53	34	33	47	36	38
Medical/other life sciences .....	22	45	56	84	30	43	40	120	72	90	143	142	82
Physical sciences .....	74	121	188	237	62	104	69	188	175	159	129	157	130
Social/behavioral sciences.....	301	339	524	660	164	223	175	511	416	391	450	485	451
Psychology .....	154	173	281	363	98	109	80	295	223	223	256	248	232
Social sciences.....	147	166	243	297	66	114	95	216	193	168	194	237	219
Non-S&E.....	397	494	748	809	273	345	290	815	540	484	726	1,078	798

NOTES: Medical/other life sciences are reported separately from S&E fields in National Science Foundation, Division of Science Resources Statistics (NSF/SRS) higher education publications. For detailed fields, see NSF/SRS, Science and Engineering Doctorate Awards, <http://www.nsf.gov/statistics/nsf05300/htmstart.htm>.

SOURCE: NSF/SRS, Survey of Earned Doctorates, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Appendix table 2-33

(Page 1 of 5)

**Plans of foreign recipients of U.S. S&E doctorates to stay in United States, by field and place of origin: 1992–2003**

Field and place of origin	Foreign S&E doctorate recipients			Plans to stay (%)			Definite plans to stay (%)		
	1992–95	1996–99	2000–03	1992–95	1996–99	2000–03	1992–95	1996–99	2000–03
<b>All S&amp;E fields</b>									
All non-U.S. citizens.....	40,941	40,133	37,608	67.6	71.7	73.6	34.7	45.6	51.1
East/South Asia .....	25,456	24,471	21,215	73.3	77.7	79.9	37.1	49.3	54.8
China <sup>a</sup> .....	10,256	10,658	10,089	95.3	92.7	92.5	46.8	58.6	63.6
Taiwan .....	5,152	4,099	2,267	53.4	60.3	66.8	24.0	33.7	40.6
Japan .....	566	581	656	42.6	47.5	59.6	24.6	29.8	41.6
South Korea .....	4,392	3,455	3,461	42.1	50.9	69.6	20.2	31.3	46.3
India .....	4,214	4,781	3,238	88.0	90.1	89.2	53.2	62.5	66.6
Other .....	876	897	1,504	36.6	36.8	28.1	16.2	22.4	17.9
West Asia .....	4,070	3,131	3,355	60.8	61.6	62.2	25.9	34.8	42.3
Iran .....	770	454	309	80.5	86.1	88.0	29.5	46.5	55.3
Israel .....	371	223	174	56.9	63.7	74.1	31.8	45.7	50.0
Turkey .....	587	686	1,309	53.8	60.5	58.6	26.4	36.4	40.6
Other .....	2,342	1,768	1,563	56.7	55.5	58.9	23.6	29.9	40.4
Pacifica/Australasia .....	940	850	648	48.8	54.0	61.1	28.3	32.9	42.3
Australia .....	216	208	155	55.6	61.5	67.7	39.4	44.7	47.7
Indonesia .....	336	251	225	26.2	32.3	51.1	12.5	17.1	32.9
New Zealand .....	81	101	89	48.1	60.4	66.3	37.0	42.6	49.4
Other .....	307	290	179	69.1	65.2	65.4	35.5	34.8	45.8
Africa .....	2,067	1,599	1,400	57.0	59.6	67.5	19.5	28.4	41.4
Egypt .....	389	339	380	50.9	51.9	63.4	17.2	28.9	44.2
Nigeria .....	251	144	73	90.4	84.0	89.0	27.1	31.3	46.6
South Africa .....	151	145	146	52.3	54.5	59.6	30.5	34.5	43.2
Other .....	1,276	971	801	52.9	59.4	68.9	17.4	26.9	39.3
Europe .....	4,494	5,604	6,338	63.5	71.2	74.3	40.4	50.3	55.0
Greece .....	666	462	342	60.5	67.7	67.3	35.6	47.2	51.5
United Kingdom .....	565	492	500	77.9	76.6	78.8	54.9	57.1	57.8
Germany .....	692	749	830	61.7	62.8	65.7	39.9	45.7	51.0
Italy .....	311	328	429	52.4	53.7	60.4	29.6	38.4	45.9
France .....	352	301	352	48.9	59.8	67.9	26.7	34.6	46.3
Spain .....	212	229	253	54.7	54.6	62.8	38.7	36.2	46.6
Other .....	1,696	3,043	3,632	66.9	77.2	79.4	42.7	54.7	58.3
North/South America .....	3,777	4,061	4,312	51.6	51.8	56.9	31.3	35.3	41.2
Canada .....	1,211	1,196	1,317	60.8	67.7	69.6	43.5	49.7	53.7
Mexico .....	550	680	821	38.9	35.3	44.2	20.0	21.9	30.0
Argentina .....	244	268	286	54.5	65.3	66.8	34.8	45.5	51.7
Brazil .....	593	706	531	32.0	31.2	38.0	16.0	20.4	27.7
Chile .....	183	125	180	47.5	46.4	41.7	28.4	33.6	32.8
Colombia .....	168	167	266	51.8	49.7	59.8	23.2	32.3	42.5
Peru .....	128	132	117	65.6	68.9	71.8	39.8	43.9	44.4
Other .....	700	787	794	59.9	54.3	58.4	32.0	34.3	38.3
Country unknown .....	129	379	295	86.8	71.2	31.2	23.3	37.7	12.9
<b>Physical/earth, atmospheric, and ocean sciences</b>									
All non-U.S. citizens.....	7,529	7,144	6,489	76.9	78.7	79.6	40.7	51.8	58.3
East/South Asia .....	5,028	4,318	3,529	83.0	84.9	85.9	43.0	54.3	62.7
China <sup>a</sup> .....	2,959	2,503	2,094	95.3	93.3	92.5	47.3	58.8	66.3
Taiwan .....	662	503	245	60.7	69.2	76.7	30.1	42.3	52.2
Japan .....	80	84	101	45.0	59.5	71.3	23.8	39.3	49.5
South Korea .....	671	511	483	58.4	63.2	79.7	32.5	44.8	61.9
India .....	569	621	455	84.0	90.7	86.6	53.8	59.4	67.7
Other .....	87	96	151	50.6	51.0	35.8	21.8	27.1	25.8
West Asia .....	506	373	399	70.0	70.8	64.7	30.2	43.7	46.1
Iran .....	98	69	37	85.7	84.1	81.1	27.6	50.7	64.9
Israel .....	41	24	17	63.4	79.2	64.7	41.5	62.5	41.2
Turkey .....	71	66	132	63.4	60.6	59.1	31.0	40.9	40.2
Other .....	296	214	213	67.2	68.7	65.3	29.4	40.2	46.9
Pacifica/Australasia .....	150	140	95	61.3	60.7	73.7	32.7	35.0	49.5
Australia .....	28	27	15	67.9	59.3	66.7	39.3	40.7	66.7
Indonesia .....	32	26	27	37.5	53.8	63.0	21.9	34.6	44.4
New Zealand .....	16	16	9	43.8	68.8	66.7	43.8	43.8	44.4
Other .....	74	71	44	73.0	62.0	84.1	32.4	31.0	47.7

Appendix table 2-33

(Page 2 of 5)

## Plans of foreign recipients of U.S. S&amp;E doctorates to stay in United States, by field and place of origin: 1992–2003

Field and place of origin	Foreign S&E doctorate recipients			Plans to stay (%)			Definite plans to stay (%)		
	1992–95	1996–99	2000–03	1992–95	1996–99	2000–03	1992–95	1996–99	2000–03
Africa .....	225	179	166	74.2	69.3	83.1	25.3	33.5	54.2
Egypt .....	26	18	33	69.2	44.4	81.8	11.5	27.8	63.6
Nigeria .....	25	19	6	96.0	94.7	66.7	40.0	26.3	66.7
South Africa .....	24	19	19	62.5	47.4	57.9	33.3	42.1	36.8
Other .....	150	123	108	73.3	72.4	88.9	24.0	34.1	53.7
Europe .....	1,011	1,506	1,681	60.9	71.9	75.4	38.4	53.3	56.3
Greece .....	143	75	52	60.1	57.3	59.6	32.2	38.7	46.2
United Kingdom .....	133	118	116	76.7	68.6	75.9	55.6	52.5	61.2
Germany .....	182	219	224	51.1	58.9	63.8	33.5	44.7	50.0
Italy .....	59	71	101	50.8	52.1	55.4	28.8	40.8	39.6
France .....	111	74	95	42.3	50.0	68.4	28.8	31.1	47.4
Spain .....	32	29	42	59.4	51.7	59.5	40.6	34.5	40.5
Other .....	351	920	1,051	68.1	80.5	81.7	41.3	60.0	60.6
North/South America .....	582	544	555	63.4	62.1	68.1	42.6	46.0	51.5
Canada .....	211	178	198	65.9	78.7	77.8	53.1	63.5	64.6
Mexico .....	78	77	100	53.8	35.1	55.0	32.1	19.5	40.0
Argentina .....	43	62	41	69.8	77.4	80.5	51.2	53.2	56.1
Brazil .....	76	74	48	52.6	40.5	37.5	31.6	32.4	25.0
Chile .....	36	16	12	63.9	50.0	66.7	41.7	37.5	41.7
Colombia .....	22	17	47	40.9	52.9	70.2	18.2	41.2	57.4
Peru .....	13	19	14	84.6	63.2	78.6	76.9	36.8	35.7
Other .....	103	101	95	72.8	63.4	69.5	35.0	44.6	48.4
Country unknown .....	27	77	51	81.5	68.8	37.3	25.9	40.3	19.6
Biological/agricultural sciences									
All non-U.S. citizens .....	10,201	11,451	10,210	69.4	73.2	74.2	40.8	47.9	50.8
East/South Asia .....	6,018	7,029	5,908	81.0	82.4	82.9	48.8	54.6	56.7
China <sup>a</sup> .....	2,940	3,771	3,078	97.1	93.5	94.0	58.0	61.8	63.9
Taiwan .....	1,079	1,100	638	62.0	62.9	68.2	33.6	40.4	44.2
Japan .....	121	119	158	62.8	60.5	68.4	45.5	42.0	48.7
South Korea .....	818	734	705	56.2	64.7	84.0	38.4	46.6	61.4
India .....	772	1,010	838	92.5	91.4	90.9	57.4	59.5	62.3
Other .....	288	295	491	34.7	35.6	22.0	19.1	24.1	14.1
West Asia .....	846	750	755	54.1	60.9	53.6	27.3	34.5	34.6
Iran .....	141	112	49	77.3	86.6	85.7	33.3	46.4	42.9
Israel .....	50	59	32	52.0	72.9	87.5	36.0	49.2	50.0
Turkey .....	77	106	260	51.9	55.7	40.0	32.5	31.1	26.2
Other .....	578	473	414	49.0	54.5	55.8	24.4	30.7	37.7
Pacifica/Australasia .....	303	285	187	42.9	50.5	61.0	26.4	29.8	43.3
Australia .....	62	73	43	41.9	60.3	83.7	33.9	43.8	60.5
Indonesia .....	106	80	46	13.2	25.0	43.5	7.5	16.3	23.9
New Zealand .....	24	34	29	41.7	50.0	55.2	29.2	32.4	48.3
Other .....	111	98	69	72.1	64.3	60.9	39.6	29.6	43.5
Africa .....	743	559	472	46.8	53.1	60.0	16.4	23.3	34.3
Egypt .....	98	43	69	46.9	41.9	60.9	19.4	25.6	42.0
Nigeria .....	70	46	28	92.9	91.3	92.9	32.9	37.0	35.7
South Africa .....	43	47	40	58.1	48.9	52.5	30.2	29.8	37.5
Other .....	532	423	335	39.8	50.6	57.9	12.6	20.8	32.2
Europe .....	942	1,246	1,295	65.1	72.7	77.1	43.0	51.8	55.1
Greece .....	81	83	62	50.6	67.5	59.7	30.9	54.2	46.8
United Kingdom .....	150	147	144	78.0	83.7	86.8	56.7	65.3	59.7
Germany .....	152	197	183	68.4	65.5	71.6	46.1	47.2	54.6
Italy .....	44	55	57	63.6	56.4	56.1	31.8	32.7	40.4
France .....	61	69	67	50.8	65.2	70.1	29.5	34.8	40.3
Spain .....	79	79	60	62.0	59.5	71.7	40.5	36.7	50.0
Other .....	375	616	722	64.8	77.1	80.9	42.9	55.2	57.9
North/South America .....	1,325	1,473	1,535	47.8	47.5	55.3	28.5	31.9	40.1
Canada .....	386	418	461	59.3	66.5	70.1	41.5	49.0	55.7
Mexico .....	235	282	275	34.5	32.3	40.0	17.9	19.9	25.8
Argentina .....	90	80	97	42.2	53.8	68.0	26.7	43.8	49.5
Brazil .....	199	260	189	24.6	24.2	31.7	11.1	14.2	24.3
Chile .....	61	49	69	57.4	51.0	52.2	36.1	42.9	40.6

Appendix table 2-33

(Page 3 of 5)

## Plans of foreign recipients of U.S. S&amp;E doctorates to stay in United States, by field and place of origin: 1992–2003

Field and place of origin	Foreign S&E doctorate recipients			Plans to stay (%)			Definite plans to stay (%)		
	1992–95	1996–99	2000–03	1992–95	1996–99	2000–03	1992–95	1996–99	2000–03
Colombia .....	54	66	99	64.8	51.5	60.6	25.9	34.8	40.4
Peru .....	36	35	44	63.9	68.6	70.5	41.7	48.6	36.4
Other .....	264	283	301	54.2	50.2	54.2	29.9	26.9	36.5
Country unknown .....	23	100	50	87.0	77.0	38.0	21.7	47.0	16.0
<b>Mathematics/computer sciences</b>									
All non-U.S. citizens .....	4,204	3,895	3,643	68.7	73.4	76.4	36.9	47.8	56.7
East/South Asia .....	2,599	2,185	1,852	73.5	78.5	82.7	36.9	50.3	59.8
China <sup>a</sup> .....	1,085	859	876	93.5	92.5	90.8	41.9	58.0	67.4
Taiwan .....	484	352	194	51.0	62.5	65.5	23.6	33.2	36.1
Japan .....	39	32	43	43.6	71.9	74.4	23.1	46.9	51.2
South Korea .....	358	332	327	34.1	48.8	76.5	13.7	23.2	51.7
India .....	559	541	314	86.8	90.2	92.0	56.9	69.3	72.0
Other .....	74	69	98	33.8	40.6	39.8	17.6	26.1	30.6
West Asia .....	368	266	324	62.2	53.4	63.6	32.1	30.8	49.1
Iran .....	61	28	31	78.7	78.6	90.3	34.4	42.9	64.5
Israel .....	83	33	29	66.3	75.8	65.5	47.0	66.7	48.3
Turkey .....	60	59	117	55.0	64.4	68.4	30.0	37.3	54.7
Other .....	164	146	147	56.7	39.0	53.7	24.4	17.8	41.5
Pacifica/Australasia .....	92	78	60	70.7	74.4	68.3	45.7	50.0	55.0
Australia .....	33	23	26	69.7	82.6	53.8	45.5	60.9	50.0
Indonesia .....	18	14	8	38.9	42.9	75.0	11.1	0.0	50.0
New Zealand .....	10	18	20	60.0	77.8	80.0	60.0	66.7	55.0
Other .....	31	23	6	93.5	82.6	83.3	61.3	56.5	83.3
Africa .....	138	92	93	65.9	68.5	77.4	27.5	35.9	52.7
Egypt .....	27	30	24	66.7	66.7	79.2	18.5	40.0	58.3
Nigeria .....	12	S	S	91.7	S	S	41.7	S	S
South Africa .....	12	10	16	66.7	70.0	75.0	58.3	50.0	50.0
Other .....	87	48	51	62.1	66.7	76.5	24.1	33.3	51.0
Europe .....	691	891	959	62.4	74.9	76.6	42.7	52.7	59.4
Greece .....	108	75	54	60.2	65.3	72.2	40.7	45.3	48.1
United Kingdom .....	48	43	53	66.7	86.0	69.8	47.9	69.8	60.4
Germany .....	103	95	111	60.2	64.2	63.1	38.8	45.3	53.2
Italy .....	81	57	45	39.5	61.4	68.9	24.7	49.1	51.1
France .....	30	21	27	56.7	85.7	63.0	36.7	28.6	44.4
Spain .....	14	30	15	64.3	43.3	53.3	57.1	33.3	40.0
Other .....	307	570	654	69.7	79.6	81.5	48.5	56.0	63.0
North/South America .....	306	337	325	50.7	53.1	57.5	32.4	34.7	43.4
Canada .....	100	96	97	64.0	67.7	67.0	45.0	47.9	51.5
Mexico .....	41	58	65	39.0	36.2	38.5	22.0	20.7	27.7
Argentina .....	16	22	20	43.8	77.3	80.0	25.0	45.5	75.0
Brazil .....	59	66	57	33.9	37.9	54.4	22.0	22.7	40.4
Chile .....	14	9	13	42.9	33.3	53.8	14.3	11.1	38.5
Colombia .....	22	24	21	31.8	54.2	52.4	18.2	41.7	33.3
Peru .....	8	S	6	62.5	S	83.3	25.0	S	83.3
Other .....	46	59	46	65.2	54.2	58.7	43.5	35.6	39.1
Country unknown .....	9	42	25	66.7	69.0	32.0	11.1	45.2	8.0
<b>Social/behavioral sciences</b>									
All non-U.S. citizens .....	5,611	5,312	5,286	52.5	52.8	57.9	26.6	31.6	41.1
East/South Asia .....	2,650	2,533	2,088	49.7	52.3	57.3	23.7	29.8	39.8
China <sup>a</sup> .....	646	653	513	85.4	80.7	82.1	39.6	47.8	61.4
Taiwan .....	388	406	255	29.1	31.0	41.2	9.5	12.1	23.5
Japan .....	202	225	241	39.1	41.8	50.2	20.8	24.4	33.6
South Korea .....	846	670	572	26.1	29.3	41.1	8.9	14.2	26.0
India .....	399	434	334	76.9	78.6	81.4	49.9	51.6	59.0
Other .....	169	145	173	26.0	29.0	24.3	11.2	13.8	16.8
West Asia .....	618	444	501	51.1	45.0	57.9	21.4	26.6	39.5
Iran .....	83	30	20	77.1	80.0	85.0	24.1	43.3	30.0
Israel .....	116	65	73	56.9	52.3	69.9	26.7	36.9	53.4
Turkey .....	84	102	201	47.6	39.2	52.2	25.0	28.4	37.8
Other .....	335	247	207	43.6	41.3	56.5	17.9	21.1	37.2

Appendix table 2-33

(Page 4 of 5)

## Plans of foreign recipients of U.S. S&amp;E doctorates to stay in United States, by field and place of origin: 1992–2003

Field and place of origin	Foreign S&E doctorate recipients			Plans to stay (%)			Definite plans to stay (%)		
	1992–95	1996–99	2000–03	1992–95	1996–99	2000–03	1992–95	1996–99	2000–03
Pacifica/Australasia.....	210	189	149	38.1	43.4	49.0	21.0	25.9	32.2
Australia .....	58	59	51	48.3	52.5	64.7	37.9	39.0	39.2
Indonesia .....	70	51	43	17.1	13.7	27.9	5.7	2.0	14.0
New Zealand.....	26	20	18	46.2	50.0	66.7	26.9	40.0	50.0
Other .....	56	59	37	50.0	57.6	43.2	19.6	28.8	35.1
Africa .....	410	300	250	58.8	55.0	65.2	16.3	21.7	36.0
Egypt.....	33	25	28	30.3	44.0	35.7	9.1	20.0	25.0
Nigeria.....	100	40	20	86.0	60.0	85.0	16.0	17.5	55.0
South Africa .....	45	34	39	42.2	52.9	53.8	24.4	23.5	35.9
Other .....	232	201	163	54.3	55.7	70.6	15.9	22.4	35.6
Europe .....	842	894	1,157	63.4	62.8	65.7	41.4	43.3	51.3
Greece.....	86	67	48	58.1	77.6	58.3	32.6	50.7	41.7
United Kingdom .....	164	136	139	76.8	70.6	76.3	52.4	48.5	56.1
Germany.....	148	127	151	67.6	65.4	69.5	47.3	45.7	55.6
Italy .....	87	95	135	59.8	46.3	61.5	34.5	36.8	53.3
France .....	37	54	68	54.1	59.3	66.2	32.4	35.2	47.1
Spain.....	58	57	84	46.6	47.4	56.0	37.9	33.3	45.2
Other .....	262	358	532	60.7	63.4	65.0	38.5	43.6	50.8
North/South America.....	848	894	1,074	50.9	48.5	51.2	30.9	32.7	36.8
Canada .....	348	327	395	57.8	58.4	62.0	39.7	39.8	47.1
Mexico.....	97	120	166	33.0	31.7	37.3	14.4	20.8	23.5
Argentina.....	57	58	87	54.4	50.0	52.9	31.6	27.6	42.5
Brazil.....	86	103	114	44.2	32.0	37.7	24.4	24.3	28.1
Chile.....	41	34	50	29.3	50.0	26.0	14.6	32.4	22.0
Colombia .....	31	30	35	41.9	30.0	42.9	22.6	13.3	34.3
Peru.....	40	48	31	45.0	62.5	64.5	27.5	43.8	45.2
Other .....	148	174	196	58.8	50.0	54.1	31.8	34.5	32.7
Country unknown.....	32	57	61	87.5	61.4	39.3	21.9	22.8	19.7
Engineering									
All non-U.S. citizens.....	13,396	12,331	11,980	67.0	73.8	75.8	29.3	45.3	50.2
East/South Asia.....	9,161	8,406	7,838	69.6	77.6	80.3	30.1	48.0	52.8
China <sup>a</sup> .....	2,626	2,872	3,528	96.6	93.8	93.1	37.3	56.8	61.1
Taiwan .....	2,539	1,738	935	52.1	62.5	70.6	20.5	32.1	40.6
Japan .....	124	121	113	26.6	30.6	51.3	11.3	16.5	38.1
South Korea.....	1,699	1,208	1,374	38.4	50.0	68.9	13.7	28.0	40.2
India.....	1,915	2,175	1,297	90.0	91.6	90.2	50.9	65.1	69.5
Other .....	258	292	591	41.9	36.3	30.3	14.0	22.6	17.3
West Asia .....	1,732	1,298	1,376	64.5	66.7	67.5	24.2	36.1	44.9
Iran.....	387	215	172	81.4	88.4	90.1	28.9	46.0	58.1
Israel .....	81	42	23	46.9	50.0	87.0	16.0	28.6	47.8
Turkey.....	295	353	599	53.6	67.4	66.8	23.4	39.4	45.1
Other .....	969	688	582	62.6	60.6	60.8	23.2	31.8	40.7
Pacifica/Australasia.....	185	158	157	49.7	57.0	62.4	27.6	36.7	41.4
Australia .....	35	26	20	68.6	69.2	60.0	45.7	50.0	25.0
Indonesia .....	110	80	101	39.1	42.5	59.4	19.1	25.0	40.6
New Zealand.....	5	13	13	80.0	69.2	69.2	60.0	38.5	46.2
Other .....	35	39	23	60.0	74.4	73.9	31.4	51.3	56.5
Africa .....	551	469	419	60.3	64.8	69.0	21.6	35.4	45.1
Egypt.....	205	223	226	51.7	53.4	63.3	18.0	29.1	42.9
Nigeria.....	44	35	17	93.2	94.3	94.1	31.8	45.7	47.1
South Africa .....	27	35	32	44.4	62.9	68.8	25.9	42.9	59.4
Other .....	275	176	144	62.9	73.9	75.0	22.2	39.8	45.1
Europe .....	1,008	1,067	1,246	65.6	72.4	76.1	37.5	48.2	53.1
Greece.....	248	162	126	64.9	69.8	75.4	37.9	46.9	61.1
United Kingdom .....	70	48	48	90.0	83.3	79.2	60.0	56.3	45.8
Germany.....	107	111	161	63.6	61.3	59.6	32.7	45.0	42.2
Italy .....	40	50	91	52.5	58.0	62.6	27.5	32.0	42.9
France .....	113	83	95	50.4	57.8	68.4	18.6	38.6	49.5
Spain.....	29	34	52	41.4	67.6	69.2	24.1	44.1	51.9
Other .....	401	579	673	69.6	78.1	83.4	41.9	51.5	56.8

Appendix table 2-33

(Page 5 of 5)

**Plans of foreign recipients of U.S. S&E doctorates to stay in United States, by field and place of origin: 1992–2003**

Field and place of origin	Foreign S&E doctorate recipients			Plans to stay (%)			Definite plans to stay (%)		
	1992–95	1996–99	2000–03	1992–95	1996–99	2000–03	1992–95	1996–99	2000–03
North/South America.....	716	813	823	50.4	55.7	59.5	27.4	37.5	41.1
Canada.....	166	177	166	62.0	76.8	77.7	43.4	57.1	51.8
Mexico.....	99	143	215	43.4	44.1	51.6	20.2	28.7	36.3
Argentina.....	38	46	41	71.1	82.6	73.2	44.7	60.9	61.0
Brazil.....	173	203	123	24.9	34.0	40.7	8.7	21.2	27.6
Chile.....	31	17	36	35.5	29.4	30.6	22.6	17.6	27.8
Colombia.....	39	30	64	59.0	60.0	62.5	25.6	33.3	42.2
Peru.....	31	27	22	87.1	81.5	77.3	41.9	40.7	54.5
Other.....	139	170	156	60.4	60.0	65.4	30.2	40.0	42.3
Country unknown.....	38	103	108	94.7	73.8	20.4	26.3	32.0	5.6

S = suppressed for reasons of confidentiality

\*Includes Hong Kong.

NOTES: Data include permanent and temporary residents. Recipients who plan to stay report plan to locate in United States; those with definite plans report postdoctoral research appointment or definite employment plans in United States.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, special tabulations (2004).

*Science and Engineering Indicators 2006*

**Time from bachelor's to S&E doctoral degree, by doctoral degree field: 1983–2003**

(Years, median)

Year	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Engineering	Mathematics	Medical/ other life sciences	Physical sciences	Psychology	Social sciences
<b>Time from bachelor's to doctoral degree</b>										
1983	8.3	7.5	8.6	8.5	8.0	7.3	11.0	6.6	9.0	10.1
1984	8.3	8.0	9.0	8.9	8.0	7.9	11.0	6.7	9.3	10.3
1985	8.7	8.0	9.0	8.9	8.1	7.9	12.0	6.9	9.5	10.7
1986	9.0	8.0	9.3	9.0	8.2	7.3	12.0	6.9	9.9	10.6
1987	9.3	8.2	9.3	9.2	8.1	8.0	12.3	6.9	10.0	11.0
1988	9.6	8.2	9.5	9.5	8.1	8.1	12.9	6.8	10.1	11.1
1989	10.0	8.3	9.0	9.2	8.2	7.9	13.6	6.9	10.1	11.0
1990	10.2	8.2	8.9	9.0	8.2	8.0	13.3	7.0	10.1	11.2
1991	10.2	8.3	8.9	9.3	8.6	8.1	14.0	7.2	10.2	11.2
1992	10.2	8.6	9.3	9.7	8.8	8.9	14.4	7.4	10.2	11.2
1993	10.7	8.6	9.6	10.5	8.9	8.5	14.0	7.5	10.0	11.2
1994	10.7	8.6	9.6	10.6	9.0	8.7	14.3	7.6	9.4	11.4
1995	11.0	8.5	9.5	10.8	9.1	8.5	14.2	7.6	9.7	11.2
1996	11.4	8.6	9.9	11.0	9.0	8.2	14.7	7.5	9.4	11.0
1997	11.0	8.3	9.8	10.5	8.7	8.5	14.8	7.3	9.2	11.0
1998	11.1	8.2	10.5	10.5	8.8	8.0	15.0	7.1	9.0	10.6
1999	10.9	8.0	10.0	10.4	8.6	8.0	14.0	7.0	9.0	10.9
2000	11.0	8.1	9.8	10.0	8.6	7.6	14.3	7.2	9.0	10.7
2001	10.5	8.1	9.4	9.8	8.4	8.0	13.3	7.0	9.0	10.7
2002	10.6	8.0	9.4	9.8	8.5	7.6	14.4	7.0	9.1	10.9
2003	10.2	8.0	9.5	9.6	8.6	7.7	13.0	7.1	9.0	10.9
<b>Enrollment from bachelor's to doctoral degree</b>										
1983	5.9	6.3	6.7	6.9	5.9	6.3	6.7	5.9	6.7	7.4
1984	6.0	6.5	6.7	6.9	5.9	6.1	6.8	6.0	7.0	7.5
1985	6.2	6.5	6.4	7.0	6.0	6.4	6.9	6.0	7.1	7.6
1986	6.2	6.5	6.6	7.1	6.0	6.1	7.0	6.0	7.1	7.6
1987	6.4	6.6	6.8	7.0	6.0	6.4	7.0	5.9	7.2	7.7
1988	6.5	6.7	6.9	7.3	6.0	6.3	7.2	6.0	7.3	7.9
1989	6.6	6.6	6.7	7.0	6.1	6.3	7.3	6.0	7.4	7.9
1990	6.7	7.0	6.8	7.3	6.3	6.7	7.8	6.2	7.6	8.0
1991	6.7	6.8	6.9	7.4	6.3	6.6	7.4	6.1	7.5	7.9
1992	6.6	6.9	7.0	7.4	6.4	7.0	7.6	6.4	7.5	8.0
1993	6.9	7.0	7.2	7.6	6.5	6.9	7.9	6.4	7.3	8.2
1994	6.8	7.0	7.3	7.8	6.5	6.9	7.7	6.5	7.3	8.0
1995	6.6	7.0	7.4	7.9	6.5	6.9	7.7	6.5	7.3	8.0
1996	6.9	7.0	7.2	7.8	6.5	6.8	8.0	6.5	7.3	7.9
1997	7.0	7.0	7.6	7.6	6.6	7.0	8.0	6.5	7.3	8.0
1998	7.0	7.0	7.6	7.5	6.7	6.7	8.2	6.4	7.2	8.0
1999	6.9	6.9	7.6	7.6	6.7	6.9	7.9	6.4	7.3	8.0
2000	7.0	7.0	7.5	7.8	6.8	6.8	8.0	6.5	7.2	8.1

**Time from bachelor's to S&E doctoral degree, by doctoral degree field: 1983–2003**

(Years, median)

Year	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Engineering	Mathematics	Medical/ other life sciences	Physical sciences	Psychology	Social sciences
2001 .....	7.3	7.0	7.4	7.5	6.7	6.7	7.7	6.3	7.3	8.2
2002 .....	7.2	6.9	7.7	7.6	6.7	6.8	8.0	6.4	7.3	8.2
2003 .....	7.2	6.8	7.8	7.4	6.9	6.8	7.9	6.4	7.3	8.3

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, special tabulations.

*Science and Engineering Indicators 2006*

## Postdocs at U.S. universities, by field and citizenship status: 1983–2003

Citizenship	All S&E fields	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Engineering	Mathematics	Medical/ other life sciences	Physical sciences	Psychology	Social sciences
<b>All postdocs</b>											
1983 .....	20,712	318	8,337	80	420	1,108	170	5,042	4,458	437	342
1984 .....	21,535	384	8,683	59	493	1,203	203	5,353	4,408	423	326
1985 .....	22,387	374	9,128	70	379	1,356	226	5,455	4,539	510	350
1986 .....	23,721	421	9,692	75	420	1,405	201	5,804	4,860	521	322
1987 .....	24,881	453	10,353	103	424	1,446	229	6,066	4,968	460	379
1988 .....	26,123	476	10,653	96	496	1,690	284	6,409	5,201	498	320
1989 .....	27,932	522	11,425	84	453	1,928	225	7,026	5,366	536	367
1990 .....	29,565	536	11,909	71	594	1,950	249	7,762	5,592	464	438
1991 .....	30,865	580	12,455	120	625	2,262	206	8,008	5,722	508	379
1992 .....	32,747	640	13,158	145	692	2,369	201	8,864	5,792	525	361
1993 .....	34,322	720	13,778	164	765	2,446	224	9,657	5,669	521	378
1994 .....	36,377	729	14,379	185	824	2,606	239	10,590	5,884	551	390
1995 .....	35,926	724	14,659	213	845	2,648	262	9,766	5,851	582	376
1996 .....	37,107	699	14,890	250	861	2,677	326	10,538	5,828	594	444
1997 .....	38,481	724	15,082	322	942	2,971	308	11,217	5,968	586	361
1998 .....	40,086	695	15,761	374	902	2,853	279	12,210	6,004	617	391
1999 .....	40,800	750	16,097	334	925	3,196	351	11,820	6,157	716	454
2000 .....	43,115	822	16,734	344	1,155	3,313	385	12,891	6,270	730	471
2001 .....	43,315	835	17,029	338	1,036	3,166	353	13,121	6,218	809	410
2002 .....	45,003	945	17,644	361	1,114	3,568	393	13,099	6,610	815	454
2003 .....	46,715	1,049	18,569	374	1,184	3,854	447	13,107	6,743	978	410
<b>U.S. citizen/permanent resident</b>											
1983 .....	13,193	232	5,783	36	260	414	80	3,716	2,064	376	232
1984 .....	13,548	275	5,906	41	328	439	103	3,861	1,987	377	231
1985 .....	13,528	227	5,952	45	253	443	112	3,785	2,026	456	229
1986 .....	14,041	250	6,095	48	278	460	100	3,921	2,213	471	205
1987 .....	14,133	281	6,248	69	261	497	119	3,801	2,178	387	292
1988 .....	14,420	321	6,093	57	307	588	151	3,976	2,260	425	242
1989 .....	14,863	316	6,344	47	271	657	95	4,178	2,267	434	254
1990 .....	15,115	328	6,371	40	377	613	99	4,446	2,213	381	247
1991 .....	15,135	330	6,400	84	389	655	92	4,328	2,202	407	248
1992 .....	15,800	360	6,577	98	415	767	92	4,616	2,248	401	226
1993 .....	16,727	378	6,924	89	460	843	107	5,092	2,213	386	235
1994 .....	17,986	363	7,251	96	514	1,018	131	5,517	2,421	426	249
1995 .....	18,142	392	7,396	113	502	999	117	5,319	2,578	465	261
1996 .....	18,412	355	7,483	121	504	1,050	137	5,482	2,489	483	308
1997 .....	18,916	370	7,300	146	573	1,089	138	6,081	2,512	453	254
1998 .....	19,710	364	7,684	188	530	950	127	6,744	2,371	487	265
1999 .....	18,884	376	7,360	144	535	1,018	152	6,159	2,259	535	346
2000 .....	19,452	331	7,078	129	705	1,069	149	6,825	2,271	561	334
2001 .....	18,397	328	7,009	113	599	976	154	6,309	2,032	594	283

**Postdocs at U.S. universities, by field and citizenship status: 1983–2003**

Citizenship	All S&E fields	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Engineering	Mathematics	Medical/other life sciences	Physical sciences	Psychology	Social sciences
2002 .....	19,662	395	7,803	175	651	1,125	189	6,139	2,227	612	346
2003 .....	19,740	459	7,763	163	612	1,161	215	6,177	2,261	650	279
Foreign citizen											
1983 .....	7,519	86	2,554	44	160	694	90	1,326	2,394	61	110
1984 .....	7,987	109	2,777	18	165	764	100	1,492	2,421	46	95
1985 .....	8,859	147	3,176	25	126	913	114	1,670	2,513	54	121
1986 .....	9,680	171	3,597	27	142	945	101	1,883	2,647	50	117
1987 .....	10,748	172	4,105	34	163	949	110	2,265	2,790	73	87
1988 .....	11,703	155	4,560	39	189	1,102	133	2,433	2,941	73	78
1989 .....	13,069	206	5,081	37	182	1,271	130	2,848	3,099	102	113
1990 .....	14,450	208	5,538	31	217	1,337	150	3,316	3,379	83	191
1991 .....	15,730	250	6,055	36	236	1,607	114	3,680	3,520	101	131
1992 .....	16,947	280	6,581	47	277	1,602	109	4,248	3,544	124	135
1993 .....	17,595	342	6,854	75	305	1,603	117	4,565	3,456	135	143
1994 .....	18,391	366	7,128	89	310	1,588	108	5,073	3,463	125	141
1995 .....	17,784	332	7,263	100	343	1,649	145	4,447	3,273	117	115
1996 .....	18,695	344	7,407	129	357	1,627	189	5,056	3,339	111	136
1997 .....	19,565	354	7,782	176	369	1,882	170	5,136	3,456	133	107
1998 .....	20,376	331	8,077	186	372	1,903	152	5,466	3,633	130	126
1999 .....	21,916	374	8,737	190	390	2,178	199	5,661	3,898	181	108
2000 .....	23,663	491	9,656	215	450	2,244	236	6,066	3,999	169	137
2001 .....	24,918	507	10,020	225	437	2,190	199	6,812	4,186	215	127
2002 .....	25,341	550	9,841	186	463	2,443	204	6,960	4,383	203	108
2003 .....	26,975	590	10,806	211	572	2,693	232	6,930	4,482	328	131

NOTES: Medical/other life sciences are reported separately from S&E fields in National Science Foundation, Division of Science Resources Statistics (NSF/SRS), *Graduate Students and Postdoctorates in Science and Engineering*. Foreign citizen includes temporary residents only.

SOURCE: NSF/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

Appendix table 2-36

**Trends in population ages 18–23 years, by selected country and region: 1980–2050**

Year	Western Europe	Eastern Europe	Africa	South America	United States	China	India	Japan
1980.....	16,323	30,423	52,831	28,776	26,234	109,543	78,143	9,492
1985.....	17,097	26,669	61,095	32,244	25,123	138,793	87,573	10,064
1990.....	15,823	25,087	70,600	33,702	22,591	155,323	97,347	11,091
1995.....	13,568	27,282	82,304	36,263	22,070	137,816	104,166	11,569
2000.....	12,910	28,769	96,029	40,051	23,197	115,681	111,059	9,870
2005.....	13,632	29,541	110,462	42,028	25,385	127,270	125,183	8,679
2010.....	13,565	26,356	122,244	42,120	27,004	136,786	133,723	7,663
2015.....	12,880	19,136	132,309	42,368	27,273	118,562	138,668	7,264
2020.....	12,556	16,431	143,717	43,241	26,745	108,958	139,344	7,299
2025.....	12,067	17,027	158,351	43,792	27,608	99,152	139,364	7,074
2030.....	11,704	17,343	172,939	43,777	28,328	102,615	139,636	6,863
2035.....	11,761	16,519	185,206	43,081	28,544	106,849	138,456	6,496
2040.....	11,929	15,138	194,138	42,258	28,462	102,572	134,522	6,174
2045.....	11,978	13,778	201,699	41,352	28,418	94,097	128,118	6,051
2050.....	11,915	13,190	208,702	40,240	28,765	88,585	121,324	6,096

SOURCES: Department of Economic and Social Affairs of the United Nations Secretariat, Population Division, World Population Prospects: The 2004 Revision, <http://esa.un.org/unpp/>; and World Urbanization Prospects: The 2003 Revision, <http://www.un.org/esa/population/publications/wup2003/2003WUP.htm>, accessed 8 March 2005.

## Field of first university degrees and ratio of first university degrees and S&amp;E degrees to 24-year-old population, by selected region and country/economy: 2002 or most recent year

Region/location	Field of first university degree									Ratio of degree to 24-year-old population <sup>a</sup>		
	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	Non-S&E	24-year-olds	First university	NS&E	Social/ behavioral sciences
All regions <sup>b</sup> .....	9,057,193	3,384,260	736,241	275,599	139,311	989,022	1,244,087	5,672,933	79,363,000	11.4	3.0	1.2
Asia <sup>b</sup> .....	3,224,593	1,496,795	340,726	38,959	57,963	423,426	635,721	1,727,798	47,948,000	6.7	2.2	0.9
Bangladesh .....	180,258	74,844	18,905	5,598	1,469	48,002	870	105,414	2,311,000	7.8	1.2	2.1
Cambodia <sup>c</sup> (2001) .....	3,105	788	94	290	113	217	74	2,317	123,000	2.5	0.5	0.2
China (2003) .....	929,598	533,582	103,409	NA	29,758	48,878	351,537	396,016	18,775,000	5.0	2.6	0.3
Hong Kong .....	26,697	9,953	1,635	2,169	0	2,149	4,000	16,744	91,000	29.3	8.6	2.4
India (1990) .....	750,000	176,036	147,036	NA	NA	NA	29,000	573,964	17,741,000	4.2	1.0	NA
Indonesia (1997) .....	144,314	97,095	10,711	NA	NA	65,740	20,644	47,219	4,103,000	3.5	0.8	1.6
Japan (2004) .....	548,897	351,299	19,727	NA	15,865	217,276 <sup>d</sup>	98,431	197,598	1,713,000	32.0	7.8	12.7
Kazakstan (1995) .....	45,536	13,252	6,779	NA	NA	952	5,521	32,284	246,000	18.5	5.0	0.4
Kyrgyzstan .....	26,261	6,600	660	1,040	201	1,895	2,804	19,661	86,000	30.5	5.5	2.2
Laos .....	1,762	1,064	51	51	139	642	181	698	93,000	1.9	0.5	0.7
Malaysia (1990) .....	10,511	4,760	1,685	NA	NA	2,198	877	5,751	410,000	2.6	0.6	0.5
Mongolia .....	16,930	5,118	477	429	492	1,381	2,339	11,812	48,000	35.3	7.8	2.9
Singapore (1995) .....	5,599	5,599	2,103	NA	NA	1,820	1,676	0	56,000	10.0	6.7	3.3
South Korea .....	239,793	113,097	12,864	13,591	5,910	15,790	64,942	126,696	778,000	30.8	12.5	2.0
Taiwan (2003) .....	176,044	72,540	4,294	15,791	4,016	6,492	41,947	103,504	402,000	43.8	16.4	1.6
Thailand (1995) .....	119,288	31,168	10,296	NA	NA	9,994	10,878	88,120	972,000	12.3	2.2	1.0
Middle East <sup>b</sup> .....	445,488	149,600	36,237	13,636	10,435	44,626	44,666	295,888	5,686,000	7.8	1.8	0.8
Bahrain .....	1,434	419	54	159	NA	96	110	1,015	13,000	11.0	2.5	0.7
Egypt <sup>e</sup> (1995) .....	85,608	13,578	6,710	NA	NA	1,437	5,431	72,030	1,173,000	7.3	1.0	0.1
Iran (2000) .....	69,211	33,625	6,016	3,301	4,785	9,542	9,981	35,586	1,305,000	5.3	1.8	0.7
Israel .....	31,962	16,154	1,256	2,524	224	8,133	4,017	15,808	106,000	30.2	7.6	7.7
Jordan (1996) .....	12,633	3,539	1,753	NA	NA	986	800	9,094	103,000	12.3	2.5	1.0
Lebanon (2001) .....	15,185	5,404	664	651	135	2,086	1,868	9,781	77,000	19.7	4.3	2.7
Morocco .....	21,667	6,701	2,308	764	NA	2,969	660	14,966	565,000	3.8	0.7	0.5
Oman (2000) .....	2,344	217	51	7	45	0	114	2,127	41,000	5.7	0.5	0.0
Palestine .....	9,915	2,737	466	755	45	730	741	7,178	55,000	18.0	3.6	1.3
Qatar .....	1,330	281	54	98	NA	53	76	1,049	8,000	16.6	2.9	0.7
Saudi Arabia (1996) .....	26,641	5,879	4,201	NA	NA	828	850	20,762	339,000	7.9	1.5	0.2
Syria (1995) .....	16,600	4,530	1,398	NA	NA	NA	3,132	12,070	322,000	5.2	1.4	NA
Tunisia (1996) .....	10,327	3,198	1,719	NA	NA	760	719	7,129	193,000	5.4	1.3	0.4
Turkey (short) .....	140,631	53,338	9,587	5,377	5,201	17,006	16,167	87,293	1,386,000	10.1	2.6	1.2
Sub-Saharan Africa <sup>b</sup> .....	174,471	42,291	7,033	4,241	5,633	14,591	10,793	132,180	4,172,000	4.2	0.7	0.3
Eritrea .....	1,120	536	77	68	116	90	185	584	69,000	1.6	0.6	0.1
Ethiopia <sup>a</sup> .....	28,688	5,980	355	1,003	1,735	690	2,197	22,708	1,088,000	2.6	0.5	0.1
Ghana (2000) .....	7,122	2,951	916	0	362	1,177	496	4,171	292,000	2.4	0.6	0.4

## Field of first university degrees and ratio of first university degrees and S&amp;E degrees to 24-year-old population, by selected region and country/economy: 2002 or most recent year

Region/location	Field of first university degree									Ratio of degree to 24-year-old population <sup>a</sup>		
	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	Non-S&E	24-year-olds	First university	NS&E	Social/ behavioral sciences
Kenya <sup>a</sup> (2000) .....	15,620	3,870	1,120	71	1,494	445	740	11,750	606,000	2.6	0.6	0.1
Lesotho .....	535	191	41	0	30	120	0	344	38,000	1.4	0.2	0.3
Madagascar <sup>a</sup> .....	5,947	2,079	771	190	53	836	229	3,868	268,000	2.2	0.5	0.3
Mauritius .....	1,207	716	157	0	83	188	288	491	22,000	5.5	2.4	0.9
Namibia (2001) .....	2,831	91	38	0	21	32	NA	2,740	31,000	9.1	0.2	0.1
South Africa (1998) .....	91,892	23,215	3,264	2,766	1,319	10,109	5,757	68,677	780,000	11.8	1.7	1.3
Tanzania (2000) .....	4,208	1,071	NA	87	299	88	597	3,137	587,000	0.7	0.2	0.0
Uganda (2000) .....	15,301	1,591	294	56	121	816	304	13,710	391,000	3.9	0.2	0.2
Europe <sup>b</sup> .....	2,682,448	930,192	222,487	90,098	31,022	216,918	369,667	1,752,256	9,214,000	29.1	7.7	2.4
European Union .....	1,465,021	506,067	100,596	70,909	16,161	120,122	198,279	958,954	4,770,000	30.7	8.1	2.5
Austria (short) .....	2,503	1,214	15	51	0	0	1,148	1,289	93,000	2.7	1.3	0.0
Austria (long) .....	14,323	4,837	832	497	217	1,367	1,924	9,486	93,000	15.4	3.7	1.5
Belgium (long) .....	24,591	8,831	1,527	763	442	2,418	3,681	15,760	128,000	19.2	5.0	1.9
Denmark (short) .....	22,912	3,914	607	209	183	1,325	1,590	18,998	67,000	34.2	3.9	2.0
Denmark (long) .....	142	31	0	0	0	0	31	111	67,000	0.2	0.0	0.0
Finland (short) .....	20,292	6,289	36	799	500	207	4,747	14,003	67,000	30.3	9.1	0.3
Finland (long) .....	11,533	5,218	894	498	169	1,371	2,286	6,315	67,000	17.2	5.7	2.0
France (short) .....	252,954	85,123	27,750	14,512	161	27,893	14,807	167,831	737,000	34.3	7.8	3.8
France (long) .....	56,055	26,754	0	195	145	0	26,414	29,301	737,000	7.6	3.6	0.0
Germany (short) .....	60,321	27,080	663	3,622	1,213	253	21,329	33,241	940,000	6.4	2.9	0.0
Germany (long) .....	115,704	36,320	10,580	5,524	893	7,853	11,470	79,384	940,000	12.3	3.0	0.8
Greece (2000, long) .....	18,556	4,576	2,570	NA	NA	221	1,785	13,980	160,000	11.6	2.7	0.1
Iceland (short) .....	1,573	437	77	118	11	151	80	1,136	4,000	39.3	7.2	3.8
Iceland (long) .....	115	16	16	0	0	0	0	99	4,000	2.9	0.4	0.0
Ireland (short) .....	20,954	7,550	2,193	2,022	216	1,206	1,913	13,404	66,000	31.7	9.6	1.8
Ireland (long) .....	798	0	0	0	0	0	0	798	66,000	1.2	0.0	0.0
Italy (short) .....	17,823	4,850	457	743	175	57	3,418	12,973	687,000	2.6	0.7	0.0
Italy (long) .....	153,983	57,992	9,193	3,748	1,660	16,644	26,747	95,991	687,000	22.4	6.0	2.4
Netherlands (short) .....	71,497	18,318	1,996	1,665	1,340	5,660	7,657	53,179	193,000	37.0	6.6	2.9
Netherlands (long) .....	3,648	1,042	213	71	48	0	710	2,606	193,000	1.9	0.5	0.0
Portugal .....	63,630	16,875	1,829	1,541	997	4,291	8,217	46,755	153,000	41.6	8.2	2.8
Spain (short) .....	90,879	24,201	0	4,954	3,027	0	16,220	66,678	660,000	13.8	3.7	0.0
Spain (long) .....	121,100	46,627	10,405	4,400	1,838	15,410	14,574	74,473	660,000	18.3	4.7	2.3
Sweden (short) .....	35,345	13,512	1,443	1,637	200	2,197	8,035	21,833	103,000	34.3	11.0	2.1
Sweden (long) .....	1,410	340	0	0	16	288	36	1,070	103,000	1.4	0.1	0.3
United Kingdom <sup>c</sup> (2003) .....	282,380	104,120	27,300	23,340	2,710	31,310	19,460	178,260	712,000	39.7	10.2	4.4

## Field of first university degrees and ratio of first university degrees and S&amp;E degrees to 24-year-old population, by selected region and country/economy: 2002 or most recent year

Region/location	Field of first university degree									Ratio of degree to 24-year-old population <sup>a</sup>		
	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	Non-S&E	24-year-olds	First university	NS&E	Social/ behavioral sciences
European Free Trade Association .....	40,529	11,603	1,215	1,891	265	3,462	4,770	28,926	133,000	30.5	6.1	2.6
Norway (short).....	17,796	4,264	39	1,071	64	2,008	1,082	13,532	55,000	32.4	4.1	3.7
Norway (long).....	4,893	1,443	92	175	76	260	840	3,450	55,000	8.9	2.2	0.5
Switzerland (short) .....	8,427	2,194	2	302	26	119	1,745	6,233	78,000	10.8	2.7	0.2
Switzerland (long).....	9,413	3,702	1,082	343	99	1,075	1,103	5,711	78,000	12.1	3.4	1.4
Central/Eastern Europe.....	1,176,898	412,522	120,676	17,298	14,596	93,334	166,618	764,376	4,311,000	27.3	7.4	2.2
Albania (long).....	4,916	790	38	63	339	132	218	4,126	55,000	8.9	1.2	0.2
Armenia (2000, long).....	10,206	1,343	NA	NA	335	NA	1,008	8,863	61,000	16.7	2.2	NA
Bulgaria .....	43,303	15,336	1,005	1,038	606	6,245	6,442	27,967	123,000	35.2	7.4	5.1
Croatia .....	10,192	3,136	538	414	277	452	1,455	7,056	61,000	16.7	4.4	0.7
Czech Republic (short).....	8,686	3,157	282	579	133	1,487	676	5,529	177,000	4.9	0.9	0.8
Czech Republic (long).....	18,359	8,414	910	2,091	978	813	3,622	9,945	177,000	10.4	4.3	0.5
Estonia.....	5,250	1,623	294	261	134	328	606	3,627	19,000	27.6	6.8	1.7
Georgia .....	23,552	6,105	925	319	458	195	4,208	17,447	75,000	31.4	7.9	0.3
Hungary (short) .....	50,505	10,693	581	692	1,864	2,797	4,759	39,812	168,000	30.1	4.7	1.7
Latvia.....	15,232	5,099	461	794	170	2,600	1,074	10,133	30,000	50.8	8.3	8.7
Lithuania.....	22,707	7,031	611	925	404	1,021	4,070	15,676	48,000	47.3	12.5	2.1
Macedonia <sup>a</sup> .....	4,239	1,204	168	133	186	112	605	3,035	33,000	12.8	3.3	0.3
Poland (short).....	162,918	46,129	2,339	4,231	3,068	24,284	12,207	116,789	630,000	25.9	3.5	3.9
Poland (long).....	98,035	37,644	5,211	2,132	2,184	11,703	16,414	60,391	630,000	15.6	4.1	1.9
Romania .....	100,042	33,429	4,068	1,985	1,909	6,392	19,075	66,613	398,000	25.1	6.8	1.6
Russia (long) (1999).....	554,814	216,017	101,320	NA	NA	32,288	82,409	338,797	2,146,000	25.9	8.6	1.5
Serbia-Montenegro <sup>a</sup> (2000).....	12,545	4,477	601	378	579	323	2,596	8,068	161,000	7.8	2.6	0.2
Slovak Republic (short).....	7,849	2,527	403	352	104	408	1,260	5,322	95,000	8.3	2.2	0.4
Slovak Republic (long).....	17,047	6,300	725	788	757	872	3,158	10,747	95,000	17.9	5.7	0.9
Slovenia.....	6,501	2,068	196	123	111	882	756	4,433	31,000	21.0	3.8	2.8
America <sup>b</sup> .....	2,371,031	717,533	119,882	115,242	32,918	279,283	170,208	1,653,498	12,024,000	19.7	3.6	2.3
North/Central America .....	1,827,226	589,999	101,426	92,591	25,113	248,473	122,396	1,237,227	6,859,000	26.6	5.0	3.6
Canada (2001) .....	128,950	59,915	11,580	6,595	2,375	29,270	10,095	69,035	430,000	30.0	7.1	6.8
Costa Rica (2001).....	22,626	4,642	310	616	271	1,509	1,936	17,984	68,000	33.3	4.6	2.2
Cuba (2000).....	16,769	3,374	1,009	219	384	408	1,354	13,395	169,000	9.9	1.8	0.2
El Salvador.....	6,819	1,082	75	196	121	18	672	5,737	137,000	5.0	0.8	0.0
Guatemala.....	3,865	882	82	0	134	254	412	2,983	214,000	1.8	0.3	0.1
Mexico.....	321,799	99,936	7,695	23,557	4,381	19,621	44,682	221,863	1,843,000	17.5	4.4	1.1
Nicaragua (1997) .....	6,282	1,965	834	NA	NA	276	855	4,317	96,000	6.5	1.8	0.3
Panama.....	14,386	2,592	73	0	87	681	1,751	11,794	51,000	28.2	3.7	1.3
United States.....	1,305,730	415,611	79,768	61,408	17,360	196,436	60,639	890,119	3,851,000	33.9	5.7	5.1

## Field of first university degrees and ratio of first university degrees and S&amp;E degrees to 24-year-old population, by selected region and country/economy: 2002 or most recent year

Region/location	Field of first university degree university degree									Ratio of degree to 24-year-old population <sup>a</sup>		
	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	Non-S&E	24-year-olds	First university	NS&E	Social/ behavioral sciences
South America.....	543,805	127,534	18,456	22,651	7,805	30,810	47,812	416,271	5,165,000	10.5	1.9	0.6
Argentina .....	55,278	16,334	1,816	3,135	2,029	3,702	5,652	38,944	681,000	8.1	1.9	0.5
Bolivia (2000).....	15,341	5,115	563	392	1,006	997	2,157	10,226	152,000	10.1	2.7	0.7
Brazil (2001).....	395,988	82,876	12,077	19,124	4,770	21,595	25,310	313,112	3,311,000	12.0	1.9	0.7
Chile (1996).....	23,010	10,531	2,358	NA	NA	4,516	3,657	12,479	239,000	9.6	2.5	1.9
Colombia (1996).....	54,188	12,678	1,642	NA	NA	NA	11,036	41,510	782,000	6.9	1.6	NA
Oceania <sup>b</sup> .....	159,162	47,849	9,876	13,423	1,340	10,178	13,032	111,313	319,000	49.9	11.8	3.2
Australia (short).....	124,867	37,537	8,417	9,912	1,058	7,570	10,580	87,330	265,000	47.1	11.3	2.9
Australia (long).....	13,010	3,595	128	1,791	62	527	1,087	9,415	265,000	4.9	1.2	0.2
New Zealand (short).....	17,794	5,431	1,249	1,550	193	2,061	378	12,363	54,000	33.0	6.2	3.8
New Zealand (long).....	3,491	1,286	82	170	27	20	987	2,205	54,000	6.5	2.3	0.0

NA = not available

NS&amp;E = natural sciences and engineering

<sup>a</sup>Number of degrees per 100 24-year-olds.<sup>b</sup>Includes only locations for which relatively recent data are available.<sup>c</sup>Engineering and agriculture degrees are long, >5 years.<sup>d</sup>Japanese social science data also include business administration.<sup>e</sup>Engineering degrees are long.<sup>f</sup>Includes former colleges and polytechnical institutions. Data for United Kingdom are rounded to nearest 10. Detail may not add to total because of rounding. Ratios based on unrounded data.

NOTES: Physical/biological sciences include physical, biological, earth, atmospheric, and ocean sciences. NS&E includes physical, biological, agricultural, and computer sciences; mathematics; and engineering. Data for first university degrees use International Standard Classification of Education (ISCED 97), level 5A. First university degree programs in most countries are <5 years. However, in some countries, especially European, some level 5A degree programs are >5 years and noted as long. When country has first university degrees that are <5 years and some >5 years, such as Germany, duration is noted as short or long. Unspecified duration means <5 years.

SOURCES: Organisation for Economic Co-operation and Development, Center for Education Research and Innovation, Education database, [http://www1.oecd.org/scripts/cde/members/EDU\\_UOEAuthenticate.asp](http://www1.oecd.org/scripts/cde/members/EDU_UOEAuthenticate.asp); United Nations Educational, Scientific, and Cultural Organization (UNESCO), Institute for Statistics, special tabulations; Iberoamerican Network of Science and Technology Indicators (RICYT), *Principales Indicadores de Ciencia y Tecnología* (1999); China—National Bureau of Statistics of China, *China Statistical Yearbook*, annual series (Beijing) various years; India—Department of Science and Technology, *Research and Development Statistics 1996–97* (1999); Japan—Government of Japan, Ministry of Education, Culture and Science, *Monbusho Survey of Education*, special tabulations (2005); Taiwan—Ministry of Education, *Educational Statistics of the Republic of China: 2004* (2004); United Kingdom—Higher Education Statistics Agency, special tabulations (2005); Russia—Center for Science Research and Statistics, unpublished tabulations (2001); Canada—Statistics Canada, special tabulations (2005); and United States—U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey; and National Science Foundation, Division of Science Resources Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

## S&amp;E first university degrees, by selected Western or Asian country and field: Selected years, 1983–2002

Country and field	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002
China												
All fields .....	NA	183,241	225,312	275,056	262,088	347,068	325,484	381,647	440,935	495,624	567,839	655,763
S&E fields.....	NA	115,287	138,724	175,584	181,770	193,088	235,313	281,245	322,769	359,478	337,352	384,529
Physical/biological sciences .....	NA	8,686	9,115	8,153	6,598	11,087	25,509	39,113	42,351	49,214	63,517	72,526
Mathematics/computer sciences.....	NA	7,764	8,974	13,079	13,847	12,520	12,520	NA	NA	NA	NA	NA
Agricultural sciences.....	NA	11,907	13,850	14,531	14,542	16,994	16,365	16,559	17,453	19,154	19,005	22,462
Social/behavioral sciences .....	NA	13,855	19,619	27,713	32,163	31,656	32,075	50,134	67,611	78,205	35,267	37,517
Engineering.....	NA	73,075	87,166	112,108	114,620	120,831	148,844	175,439	195,354	212,905	219,563	252,024
Japan												
All fields .....	369,069	373,302	382,655	376,688	428,079	445,774	493,277	524,512	532,436	538,683	545,512	547,711
S&E fields.....	245,201	247,258	252,688	247,643	284,617	295,743	330,210	348,897	350,535	353,465	359,019	357,282
Physical/biological sciences .....	8,575	9,166	9,817	9,900	10,452	10,757	12,089	13,386	13,662	13,300	14,192	19,369
Mathematics/computer sciences.....	3,148	3,532	3,572	3,395	3,765	4,221	4,884	5,103	4,906	4,941	4,965	NA
Agricultural sciences.....	10,658	10,928	11,266	10,252	12,282	13,021	14,970	13,838	14,150	15,562	14,084	16,393
Social/behavioral sciences .....	151,996	151,072	150,956	147,087	170,721	179,338	200,875	213,619	214,377	216,506	221,300	217,838
Engineering.....	70,824	72,560	77,077	77,009	87,397	88,406	97,392	102,951	103,440	103,156	104,478	103,682
South Korea												
All fields .....	77,272	118,584	149,582	166,845	175,586	208,834	184,214	196,566	209,444	214,498	234,540	239,793
S&E fields.....	36,327	45,079	53,093	58,789	73,011	78,830	84,350	91,278	94,078	96,859	111,060	113,097
Physical/biological sciences .....	5,202	8,112	7,082	8,249	9,703	11,634	11,828	12,532	13,865	13,427	13,915	12,864
Mathematics/computer sciences.....	1,589	2,888	3,149	6,274	7,547	8,502	12,351	14,151	9,847	9,299	14,510	13,591
Agricultural sciences.....	4,603	4,068	6,395	8,027	6,586	7,843	7,767	6,662	5,345	5,859	5,555	5,910
Social/behavioral sciences .....	4,297	6,472	8,867	8,098	18,483	17,808	16,955	16,624	14,195	11,766	14,764	15,790
Engineering.....	20,636	23,539	27,600	28,141	30,692	33,043	35,449	41,309	50,827	56,508	62,316	64,942
United States												
All fields .....	980,679	990,877	1,003,532	1,030,171	1,107,997	1,179,278	1,174,436	1,186,589	NA	1,253,121	1,257,648	1,305,730
S&E fields.....	317,571	332,273	331,526	322,821	337,675	366,035	378,148	388,482	NA	398,622	400,206	415,611
Physical/biological sciences .....	64,378	63,251	59,200	54,278	56,757	65,680	76,265	84,869	NA	83,531	80,220	79,768
Mathematics/computer sciences.....	37,344	54,510	56,442	46,277	40,194	39,433	38,620	38,116	NA	49,123	54,639	61,408
Agricultural sciences.....	14,528	11,907	9,524	8,582	8,432	11,632	14,580	17,361	NA	18,244	17,467	17,360
Social/behavioral sciences .....	128,651	125,033	131,935	146,737	170,105	186,585	185,312	185,784	NA	188,188	188,622	196,436
Engineering.....	72,670	77,572	74,425	66,947	62,187	62,705	63,371	62,352	NA	59,536	59,258	60,639
United Kingdom												
All fields .....	73,950	72,000	70,870	73,660	79,640	196,820	237,800	258,750	263,670	265,270	274,440	272,660
S&E fields.....	40,200	40,550	39,870	41,250	40,730	75,290	83,840	90,820	92,380	92,530	95,310	95,180
Physical/biological sciences .....	13,330	12,500	12,210	11,510	12,430	21,070	27,610	31,220	32,230	31,630	33,630	32,570
Mathematics/computer sciences.....	4,140	4,540	4,540	4,530	5,220	10,580	12,340	13,000	14,630	15,300	17,120	18,420
Agricultural sciences.....	1,480	1,450	1,370	1,340	1,210	1,650	2,300	2,800	2,860	2,340	2,910	2,970
Social/behavioral sciences .....	10,660	12,430	12,480	14,060	12,120	22,150	19,510	20,780	20,650	22,710	21,170	20,930
Engineering.....	10,590	9,630	9,270	9,820	9,740	19,840	22,080	23,020	22,010	20,550	20,490	20,280

## S&amp;E first university degrees, by selected Western or Asian country and field: Selected years, 1983–2002

Country and field	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002
Germany												
All first university degrees												
All fields .....	124,027	131,969	138,955	145,087	152,919	180,973	201,667	212,970	197,151	190,076	182,427	176,025
S&E fields .....	67,161	71,542	78,233	85,961	92,324	98,304	104,789	111,923	99,079	94,535	89,990	63,400
Physical/biological sciences .....	10,018	10,312	10,611	12,473	13,803	14,116	14,507	14,909	12,390	11,467	10,543	11,243
Mathematics/computer sciences.....	4,306	4,272	4,729	5,306	6,828	7,718	9,463	11,603	10,541	9,864	9,187	9,146
Agricultural sciences.....	4,374	4,390	4,644	4,894	4,953	4,823	4,839	4,855	4,992	4,935	4,878	2,106
Social/behavioral sciences .....	26,383	29,236	34,006	37,038	37,552	44,223	48,563	52,855	46,013	43,318	40,622	8,106
Engineering.....	22,080	23,332	24,243	26,250	29,188	27,424	27,416	27,701	25,143	24,952	24,760	32,799
Short degree (3–5 yr)												
All fields .....	41,893	48,003	52,753	54,631	58,855	63,337	69,216	75,641	70,126	68,139	66,151	60,321
S&E fields .....	29,799	34,074	39,080	40,880	40,922	43,618	43,565	43,807	41,092	40,351	39,609	27,080
Physical/biological sciences.....	464	549	599	689	678	777	710	649	615	539	463	663
Mathematics/computer sciences.....	645	1,009	1,336	1,603	2,186	2,488	2,812	3,177	2,881	2,960	3,038	3,622
Agricultural sciences.....	1,390	1,474	1,565	2,081	2,230	2,242	2,342	2,447	2,472	2,526	2,580	1,213
Social/behavioral sciences.....	12,622	15,061	19,031	20,095	19,034	22,254	23,500	24,815	21,322	19,654	17,985	253
Engineering.....	14,678	15,981	16,549	16,412	16,794	15,856	14,201	12,719	13,802	14,673	15,543	21,329
Long degree (6–7 yr)												
All fields .....	82,134	83,966	86,202	90,456	94,064	117,636	132,451	137,329	127,025	121,937	116,276	115,704
S&E fields .....	37,362	37,468	39,153	45,081	51,402	54,686	61,223	68,116	57,987	54,184	50,381	36,320
Physical/biological sciences.....	9,554	9,763	10,012	11,784	13,125	13,339	13,797	14,260	11,775	10,928	10,080	10,580
Mathematics/computer sciences.....	3,661	3,263	3,393	3,703	4,642	5,229	6,651	8,426	7,660	6,905	6,149	5,524
Agricultural sciences.....	2,984	2,916	3,079	2,813	2,723	2,581	2,496	2,408	2,520	2,409	2,298	893
Social/behavioral sciences.....	13,761	14,175	14,975	16,943	18,518	21,969	25,064	28,040	24,691	23,664	22,637	7,853
Engineering.....	7,402	7,351	7,694	9,838	12,394	11,567	13,215	14,982	11,341	10,279	9,217	11,470

NOTES: Physical/biological sciences include physical, biological, earth, atmospheric, and ocean sciences. Data for first university degrees use International Standard Classification of Education (ISCED 97), level 5A.

SOURCES: China—National Bureau of Statistics of China, *China Statistical Yearbook*, annual series (Beijing) various years; Japan—Government of Japan, Ministry of Education, Culture and Science, *Monbusho Survey of Education* (annual series, 2005); South Korea—Organisation for Economic Co-operation and Development, Center for Education Research and Innovation, Education database, [http://www1.oecd.org/scripts/cde/members/EDU\\_UOEAuthenticate.asp](http://www1.oecd.org/scripts/cde/members/EDU_UOEAuthenticate.asp); Taiwan—Ministry of Education, *Educational Statistics of the Republic of China* (annual series, 2004); Germany—Federal Statistical Office, *Prüfungen an Hochschulen 2003* (annual series, 2004); United Kingdom—Higher Education Statistics Agency, special tabulations (2005); and United States—U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey; and National Science Foundation, Division of Science Resources Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

## Field of first university degrees and ratio of first university and S&amp;E degrees to 24-year-old population, by sex, country/economy, and region: 2002 or most recent year

Sex and location	Field of first university degree							Ratio to 24-year-old population <sup>a</sup>			
	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	24-year-olds	First university	NS&E	Social/ behavioral sciences
<b>Male</b>											
<b>Asia</b>											
Bangladesh .....	119,532	51,103	13,861	4,709	1,223	30,532	778	1,162,000	10.3	1.8	2.6
Cambodia (2001) .....	2,327	648	57	245	111	162	73	61,000	3.8	0.8	0.3
Japan (2004) .....	323,025	258,331	14,369	NA	9,094	147,492b	87,376	877,000	36.8	12.6	16.8
Kyrgyzstan .....	10,928	3,455	152	458	175	757	1,913	43,000	25.4	6.3	1.8
Laos .....	1,170	727	34	41	111	376	165	47,000	2.5	0.7	0.8
Mongolia .....	6,062	2,195	189	196	190	423	1,197	24,000	25.3	7.4	1.8
South Korea .....	126,879	73,744	6,593	7,550	3,685	8,373	47,543	400,000	31.7	16.3	2.1
Taiwan (2003) .....	86,153	53,856	2,917	10,398	1,851	2,405	36,285	206,000	41.8	25.0	1.2
<b>Middle East</b>											
Bahrain .....	384	137	10	42	NA	15	70	7,000	5.5	1.7	0.2
Iran (2000) .....	37,530	20,103	2,529	1,736	2,787	4,776	8,275	636,000	5.9	2.4	0.8
Israel .....	12,493	7,674	515	1,628	102	2,399	3,030	54,000	23.1	9.8	4.4
Lebanon (2000) .....	4,778	1,309	348	254	10	326	371	39,000	12.3	2.5	0.8
Morocco .....	11,640	4,285	1,424	597	0	1,799	465	287,000	4.1	0.9	0.6
Oman (2000) .....	1,353	146	36	0	5	0	105	21,000	6.4	0.7	0.0
Palestine .....	4,786	1,482	166	413	27	352	524	28,000	17.1	4.0	1.3
Qatar .....	365	128	10	34	NA	8	76	4,000	9.1	3.0	0.2
Turkey .....	80,759	34,134	4,786	3,169	3,357	10,290	12,532	705,000	11.5	3.4	1.5
<b>Sub-Saharan Africa</b>											
Eritrea .....	983	484	69	57	110	73	175	34,000	2.9	1.2	0.2
Ethiopia .....	21,407	5,188	321	747	1,474	588	2,058	558,000	3.8	0.8	0.1
Ghana (2000) .....	5,232	2,227	694	0	294	801	438	138,000	3.8	1.0	0.6
Kenya (2000) .....	9,151	2,821	861	57	1,023	226	654	306,000	3.0	0.8	0.1
Madagascar .....	3,095	1,343	476	151	25	513	178	134,000	2.3	0.6	0.4
Mauritius .....	584	363	69	0	33	56	205	11,000	5.3	2.8	0.5
Tanzania (2000) .....	3,015	918	NA	73	237	64	544	293,000	1.0	0.3	0.0
Uganda (2000) .....	12,931	892	240	40	92	322	198	196,000	6.6	0.3	0.2
<b>Europe</b>											
Austria .....	8,514	3,931	408	445	113	422	2,543	47,000	18.1	7.5	0.9
Belgium .....	12,021	5,428	780	614	253	841	2,940	65,000	18.5	7.1	1.3
Denmark .....	7,892	2,555	357	141	92	644	1,321	34,000	23.2	5.6	1.9
Finland .....	11,844	7,624	381	778	353	521	5,591	34,000	34.8	20.9	1.5
France .....	130,849	63,497	13,254	9,779	147	9,099	31,218	371,000	35.3	14.7	2.5
Germany (2003) .....	98,258	62,919	5,235	8,017	2,340	24,375	22,952	481,000	20.4	8.0	5.1
Hungary .....	19,336	6,380	291	581	922	1,072	3,514	85,000	22.7	6.2	1.3

## Field of first university degrees and ratio of first university and S&amp;E degrees to 24-year-old population, by sex, country/economy, and region: 2002 or most recent year

Sex and location	Field of first university degree							Ratio to 24-year-old population <sup>a</sup>			
	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	24-year-olds	First university	NS&E	Social/ behavioral sciences
Iceland .....	576	246	38	93	11	47	57	2,000	28.8	10.0	2.4
Ireland .....	9,004	4,276	882	1,328	141	400	1,525	33,000	27.3	11.7	1.2
Italy .....	74,623	36,087	4,327	2,266	1,252	6,132	22,110	351,000	21.3	8.5	1.7
Netherlands .....	33,742	13,562	1,419	1,463	799	2,558	7,323	98,000	34.4	11.2	2.6
Norway .....	8,353	3,781	69	959	96	1,173	1,484	28,000	29.8	9.3	4.2
Portugal .....	20,350	8,523	654	736	376	1,328	5,429	77,000	26.4	9.3	1.7
Spain .....	86,306	40,716	4,328	6,398	2,947	5,347	21,696	336,000	25.7	10.5	1.6
Sweden .....	14,161	8,169	519	942	103	844	5,761	53,000	26.7	13.8	1.6
Switzerland .....	9,959	4,246	686	599	88	382	2,491	40,000	24.9	9.7	1.0
United Kingdom <sup>c</sup> (2003) .....	124,430	59,210	13,890	16,860	990	11,160	16,310	367,000	33.9	13.1	3.0
Central/Eastern Europe											
Albania .....	1,387	363	7	18	164	21	153	29,000	4.8	1.2	0.1
Armenia (2000) .....	4,662	1,047	NA	NA	246	NA	801	31,000	15.0	3.4	NA
Bulgaria .....	18,041	7,690	415	483	345	2,499	3,948	63,000	28.6	8.2	4.0
Croatia .....	4,125	1,765	164	276	141	164	1,020	31,000	13.3	5.2	0.5
Czech Republic .....	12,829	7,284	557	2,317	617	850	2,943	90,000	14.3	7.1	0.9
Estonia .....	1,806	816	122	167	66	93	368	10,000	18.1	7.2	0.9
Georgia .....	10,870	3,668	192	141	315	45	2,975	38,000	28.6	9.5	0.1
Latvia .....	4,596	2,128	144	514	89	612	769	15,000	30.6	10.1	4.1
Lithuania .....	8,266	3,868	258	520	191	268	2,631	24,000	34.4	15.0	1.1
Macedonia .....	1,630	664	49	44	110	38	423	17,000	9.6	3.7	0.2
Poland .....	97,352	41,806	2,207	3,993	2,374	11,399	21,833	317,000	30.7	9.6	3.6
Romania .....	44,979	18,030	1,049	921	1,105	1,836	13,119	203,000	22.2	8.0	0.9
Slovak Republic .....	11,673	5,477	464	945	555	486	3,027	48,000	24.3	10.4	1.0
Slovenia .....	2,406	1,054	82	101	54	280	537	16,000	15.0	4.8	1.8
North America											
Canada .....	51,215	28,205	4,695	4,670	1,030	10,040	7,770	219,000	23.4	8.3	4.6
Costa Rica (2000) .....	1,749	702	58	149	127	107	261	34,000	5.1	1.8	0.3
Cuba (2000) .....	5,702	1,802	208	155	267	136	1,036	88,000	6.5	1.9	0.2
El Salvador .....	3,160	716	26	121	95	13	461	69,000	4.6	1.0	0.0
Guatemala .....	2,105	511	24	0	122	40	325	108,000	1.9	0.4	0.0
Mexico .....	152,217	60,660	3,443	13,543	3,237	6,727	33,710	867,000	17.6	6.2	0.8
Panama .....	4,614	1,403	36	0	60	207	1,100	26,000	17.7	4.6	0.8
United States .....	553,957	204,408	34,389	42,142	8,726	71,199	47,952	1,960,000	28.3	6.8	3.6
South America											
Argentina .....	25,326	9,076	617	1,869	1,170	1,127	4,293	343,000	7.4	2.3	0.3
Brazil (2001) .....	148,991	44,729	5,082	12,589	3,247	6,409	17,402	1,653,000	9.0	2.3	0.4

## Field of first university degrees and ratio of first university and S&amp;E degrees to 24-year-old population, by sex, country/economy, and region: 2002 or most recent year

Sex and location	Field of first university degree							Ratio to 24-year-old population <sup>a</sup>			
	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	24-year-olds	First university	NS&E	Social/ behavioral sciences
Oceania											
Australia.....	59,433	24,637	3,763	8,588	642	2,611	9,033	134,000	44.4	16.4	1.9
New Zealand.....	8,114	3,508	577	1,174	154	681	922	27,000	30.1	10.5	2.5
Female											
Asia											
Bangladesh.....	60,726	23,741	5,044	889	246	17,470	92	1,149,000	5.3	0.5	1.5
Cambodia (2001).....	778	140	37	45	2	55	1	62,000	1.3	0.1	0.1
Japan (2004).....	225,872	92,968	5,358	NA	6,771	69,784b	11,055	836,000	27.0	2.8	8.3
Kyrgyzstan.....	15,333	3,145	508	582	26	1,138	891	43,000	35.7	4.7	2.6
Laos.....	592	337	17	10	28	266	16	46,000	1.3	0.2	0.6
Mongolia.....	10,868	2,923	288	233	302	958	1,142	24,000	45.3	8.2	4.0
South Korea.....	117,973	39,353	6,271	6,041	2,225	7,417	17,399	378,000	31.2	8.4	2.0
Taiwan (2003).....	89,891	18,684	1,377	5,393	2,165	4,087	5,662	196,000	45.9	7.4	2.1
Middle East											
Bahrain.....	1,050	282	44	117	NA	81	40	6,000	17.5	3.4	1.4
Iran (2000).....	31,681	13,522	3,487	1,565	1,998	4,766	1,706	669,000	4.7	1.3	0.7
Israel.....	19,469	8,480	741	896	122	5,734	987	52,000	37.4	5.3	11.0
Lebanon (2000).....	6,616	1,650	326	164	18	1,036	106	38,000	17.4	1.6	2.7
Morocco.....	10,027	2,416	884	167	0	1,170	195	278,000	3.6	0.4	0.4
Oman (2000).....	991	71	15	7	40	0	9	20,000	5.0	0.4	0.0
Palestine.....	5,129	1,255	300	342	18	378	217	27,000	19.0	3.2	1.4
Qatar.....	965	153	44	64	NA	45	0	4,000	24.1	2.7	1.1
Turkey.....	59,872	19,204	4,801	2,208	1,844	6,716	3,635	681,000	8.8	1.8	1.0
Sub-Saharan Africa											
Eritrea.....	137	52	8	11	6	17	10	35,000	0.4	0.1	0.0
Ethiopia.....	7,281	792	34	256	261	102	139	530,000	1.4	0.1	0.0
Ghana (2000).....	1,890	724	222	0	68	376	58	154,000	1.2	0.2	0.2
Kenya (2000).....	5,470	1,049	259	14	471	219	86	300,000	1.8	0.3	0.1
Madagascar.....	2,852	736	295	39	28	323	51	134,000	2.1	0.3	0.2
Mauritius.....	623	353	88	0	50	132	83	11,000	5.7	2.0	1.2
Tanzania (2000).....	1,079	153	NA	14	62	24	53	294,000	0.4	0.0	0.0
Uganda (2000).....	2,370	699	54	16	29	494	106	195,000	1.2	0.1	0.3
Europe											
Austria.....	8,312	2,120	439	103	104	945	529	46,000	18.1	2.6	2.1
Belgium.....	12,570	3,403	747	149	189	1,577	741	63,000	20.0	2.9	2.5
Denmark.....	15,162	1,390	250	68	91	681	300	33,000	45.9	2.1	2.1
Finland.....	19,981	3,883	549	519	316	1,057	1,442	33,000	60.5	8.6	3.2

## Field of first university degrees and ratio of first university and S&amp;E degrees to 24-year-old population, by sex, country/economy, and region: 2002 or most recent year

Sex and location	Field of first university degree							Ratio to 24-year-old population <sup>a</sup>			
	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	24-year-olds	First university	NS&E	Social/ behavioral sciences
France.....	178,160	48,380	14,496	4,928	159	18,794	10,003	366,000	48.7	8.1	5.1
Germany (2003).....	96,845	35,941	5,703	3,019	2,874	20,443	3,902	459,000	21.1	3.4	4.5
Hungary.....	31,169	4,313	290	111	942	1,725	1,245	83,000	37.6	3.1	2.1
Iceland.....	1,112	207	55	25	0	104	23	2,000	55.6	5.2	5.2
Ireland.....	12,748	3,274	1,311	694	75	806	388	33,000	38.6	7.5	2.4
Italy.....	97,183	26,755	5,323	2,225	583	10,569	8,055	336,000	28.9	4.8	3.1
Netherlands.....	41,403	5,798	790	273	589	3,102	1,044	95,000	43.6	2.8	3.3
Norway.....	14,336	1,926	62	287	44	1,095	438	27,000	53.1	3.1	4.1
Portugal.....	43,280	8,352	1,175	805	621	2,963	2,788	76,000	56.9	7.1	3.9
Spain.....	125,673	30,112	6,077	2,956	1,918	10,063	9,098	324,000	38.8	6.2	3.1
Sweden.....	22,594	5,683	924	695	113	1,641	2,310	50,000	45.2	8.1	3.3
Switzerland.....	7,887	1,650	398	46	37	812	357	38,000	20.8	2.2	2.1
United Kingdom <sup>c</sup> (2003).....	157,950	44,900	13,410	6,480	1,720	20,140	3,150	345,000	45.8	7.2	5.8
Central/Eastern Europe											
Albania.....	3,529	427	31	45	175	111	65	26,000	13.6	1.2	0.4
Armenia (2000).....	5,544	296	0	0	89	0	207	30,000	18.5	1.0	0.0
Bulgaria.....	25,262	7,646	590	555	261	3,746	2,494	60,000	42.1	6.5	6.2
Croatia.....	6,067	1,371	374	138	136	288	435	30,000	20.2	3.6	1.0
Czech Republic.....	14,216	4,287	635	353	494	1,450	1,355	87,000	16.3	3.3	1.7
Estonia.....	3,444	807	172	94	68	235	238	9,000	38.3	6.4	2.6
Georgia.....	12,682	2,437	733	178	143	150	1,233	37,000	34.3	6.2	0.4
Latvia.....	10,636	2,971	317	280	81	1,988	305	15,000	70.9	6.6	13.3
Lithuania.....	14,441	3,163	353	405	213	753	1,439	24,000	60.2	10.0	3.1
Macedonia.....	2,609	540	119	89	76	74	182	16,000	16.3	2.9	0.5
Poland.....	163,601	41,967	5,343	2,370	2,878	24,588	6,788	313,000	52.3	5.6	7.9
Romania.....	55,063	15,399	3,019	1,064	804	4,556	5,956	195,000	28.2	5.6	2.3
Slovak Republic.....	13,223	3,350	664	195	306	794	1,391	47,000	28.1	5.4	1.7
Slovenia.....	4,095	1,014	114	22	57	602	219	15,000	27.3	2.7	4.0
North America											
Canada.....	77,490	31,635	6,860	1,875	1,340	19,220	2,340	211,000	36.7	5.9	9.1
Costa Rica (2000).....	2,644	372	46	65	40	157	64	34,000	7.8	0.6	0.5
Cuba (2000).....	11,067	958	187	64	117	272	318	81,000	13.7	0.8	0.3
El Salvador.....	3,659	366	49	75	26	5	211	68,000	5.4	0.5	0.0
Guatemala.....	1,760	371	58	0	12	214	87	106,000	1.7	0.1	0.2
Mexico.....	169,582	39,276	4,252	10,014	1,144	12,894	10,972	976,000	17.4	2.7	1.3
Panama.....	9,772	1,189	37	0	27	474	651	25,000	39.1	2.9	1.9
United States.....	751,773	211,203	45,379	19,266	8,634	125,237	12,687	1,891,000	39.8	4.5	6.6

## Field of first university degrees and ratio of first university and S&amp;E degrees to 24-year-old population, by sex, country/economy, and region: 2002 or most recent year

Sex and location	Field of first university degree							Ratio to 24-year-old population <sup>a</sup>			
	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	24-year-olds	First university	NS&E	Social/ behavioral sciences
South America											
Argentina .....	29,952	7,258	1,199	1,266	859	2,575	1,359	338,000	8.9	1.4	0.8
Brazil (2001).....	246,997	38,147	6,995	6,535	1,523	15,186	7,908	1,658,000	14.9	1.4	0.9
Oceania											
Australia.....	78,444	16,495	4,782	3,115	478	5,486	2,634	131,000	59.9	8.4	4.2
New Zealand.....	13,171	3,209	754	546	66	1,400	443	27,000	48.8	6.7	5.2

NA = not available

NS&amp;E = natural sciences and engineering

<sup>a</sup>Number of degrees per 100 24-year-olds.<sup>b</sup>Japanese social science data include business administration.<sup>c</sup>Includes former colleges and polytechnical institutions. Data for United Kingdom are rounded to nearest 10. Detail may not add to total because of rounding. Ratios are based on unrounded data.

NOTES: Physical/biological sciences include physical, biological, earth, atmospheric, and ocean sciences. NS&amp;E includes natural, agricultural, and computer sciences; mathematics; and engineering. Data for first university degrees use International Standard Classification of Education (ISCED 97), level 5A. Long (&gt;5 years) and short (&lt;5 years) first university degrees are combined.

SOURCES: Organisation for Economic Co-operation and Development, Center for Education Research and Innovation, Education database, [http://www1.oecd.org/scripts/cde/members/EDU\\_UOEAuthenticate.asp](http://www1.oecd.org/scripts/cde/members/EDU_UOEAuthenticate.asp); United Nations Educational, Scientific, and Cultural Organization (UNESCO), Institute for Statistics, special tabulations; Japan—Government of Japan, Ministry of Education, Culture and Science, *Monbusho Survey of Education*, special tabulations (2005); Taiwan—Ministry of Education, *Educational Statistics of the Republic of China: 2004* (2004); Germany—Federal Statistical Office, *Prüfungen an Hochschulen 2003* (2004); United Kingdom—Higher Education Statistics Agency, special tabulations (2005); Russia—Center for Science Research and Statistics, special tabulations (2001); and United States—U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey; and National Science Foundation, Division of Science Resources Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

## Earned S&amp;E doctoral degree, by selected region, country/economy, and field: 2002 or most recent year

Location	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	Non-S&E
All regions .....	239,759	125,011	50,644	6,921	8,609	22,934	35,913	114,748
Asia <sup>a</sup> .....	49,592	25,866	9,097	385	3,027	1,742	11,615	23,726
China (2001) .....	12,465	8,153	2,655	NA	536	621	4,341	4,312
India .....	11,974	5,527	3,955	NA	838	NA	734	6,447
Japan <sup>b</sup> (2003) .....	16,314	7,581	1,651	NA	1,258	751	3,921	8,733
Kyrgyzstan .....	390	213	44	0	14	91	64	177
South Korea .....	6,690	3,225	590	258	288	190	1,899	3,465
Taiwan (2003) .....	1,759	1,167	202	127	93	89	656	592
Middle East <sup>a</sup> .....	6,855	2,791	1,226	179	273	608	505	4,064
Iran (2000) .....	1,609	305	104	33	33	59	76	1,304
Israel .....	863	599	337	54	44	109	55	264
Morocco .....	1,911	680	481	7	0	162	30	1,231
Turkey .....	2,472	1,207	304	85	196	278	344	1,265
Sub-Saharan Africa <sup>a</sup> .....	2,277	804	320	0	159	184	141	1,473
Madagascar .....	213	125	67	0	17	41	0	88
Ghana (2000) .....	733	211	71	NA	29	29	82	522
Kenya (2000) .....	1,331	468	182	NA	113	114	59	863
Europe <sup>a</sup> .....	125,794	59,959	24,952	3,970	3,416	10,898	16,733	65,835
European Union .....	76,514	40,776	18,834	3,571	1,873	7,288	9,220	35,738
Austria .....	2,125	1,049	398	100	46	160	345	1,076
Belgium .....	1,413	888	422	126	59	118	163	525
Denmark .....	732	311	177	0	0	63	71	421
Finland .....	1,797	922	246	76	36	204	360	875
France .....	10,404	6,890	4,160	828	23	922	957	3,514
Germany (2003) .....	23,043	10,796	5,251	998	501	2,013	2,033	12,247
Greece (2000) .....	932	367	128	44	36	66	93	565
Ireland .....	520	351	215	29	10	25	72	169
Italy .....	3,977	1,958	818	0	342	60	738	2,019
Netherlands .....	2,556	1,481	489	0	222	326	444	1,075
Portugal .....	3,723	1,692	426	75	72	597	522	2,031
Spain .....	6,905	3,162	1,686	383	141	477	475	3,743
Sweden .....	3,517	2,099	638	162	85	287	927	1,418
United Kingdom <sup>c</sup> (2003) .....	14,870	8,810	3,780	750	300	1,970	2,020	6,060
European Free Trade Association .....	3,540	1,446	678	148	97	176	347	2,094
Norway .....	740	162	2	0	59	76	25	578
Switzerland .....	2,800	1,284	676	148	38	100	322	1,516
Central/Eastern Europe .....	45,740	17,737	5,440	251	1,446	3,434	7,166	28,003
Bulgaria .....	401	169	79	0	28	11	51	232
Croatia .....	314	174	65	7	10	36	56	140
Czech Republic .....	1,327	860	274	169	86	103	228	467
Estonia .....	226	63	29	1	6	10	17	163
Georgia .....	602	290	96	0	15	115	64	312
Hungary .....	983	363	134	31	44	70	84	620

## Earned S&amp;E doctoral degree, by selected region, country/economy, and field: 2002 or most recent year

Location	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	Non-S&E
Lithuania .....	252	105	30	2	1	31	41	147
Romania.....	21,841	4,544	945	0	486	580	2,533	17,297
Russia (2000).....	18,274	10,409	3,567	NA	676	2,415	3,751	7,865
Serbia and Montenegro (2000) .....	419	173	35	9	33	6	90	246
Slovak Republic.....	734	373	117	19	44	30	163	361
Slovenia .....	367	214	69	13	17	27	88	153
America <sup>a</sup> .....	50,821	33,117	13,951	2,189	1,555	9,004	6,418	17,704
North/Central America .....	46,816	30,656	12,818	2,099	1,178	8,667	5,894	16,160
Canada (2001).....	3,545	2,475	985	140	135	735	480	1,070
Costa Rica (2000).....	760	204	14	61	32	96	1	556
Mexico .....	1,801	1,086	389	38	89	422	148	715
United States (2003).....	40,710	26,891	11,430	1,860	922	7,414	5,265	13,819
South America .....	4,005	2,461	1,133	90	377	337	524	1,544
Argentina .....	344	235	160	5	1	38	31	109
Brazil (1999).....	3,604	2,176	924	85	376	299	492	1,428
Chile (1996).....	57	50	49	NA	NA	NA	1	7
Oceania .....	4,420	2,474	1,098	198	179	498	501	1,946
Australia .....	3,910	2,154	938	174	158	427	457	1,756
New Zealand .....	510	320	160	24	21	71	44	190

NA = not available

<sup>a</sup>Includes only locations for which relatively recent data are available.<sup>b</sup>Includes thesis doctorates, called *ronbun hakase*, earned by employees in industry.<sup>c</sup>Data are rounded to the nearest 10. Detail may not add to total because of rounding.

NOTES: Physical/biological sciences include physical, biological, earth, atmospheric, and ocean sciences. Data for doctoral degrees use the International Standard Classification of Education (ISCED 97), level 6. S&amp;E data do not include health fields.

SOURCES: Organisation for Economic Co-operation and Development, Center for Education Research and Innovation, Education database, [www1.oecd.org/scripts/cde/members/edu\\_uoeauthenticate.asp](http://www1.oecd.org/scripts/cde/members/edu_uoeauthenticate.asp); United Nations Educational, Scientific, and Cultural Organization (UNESCO), Institute for Statistics, special tabulations; Iberoamerican Network of Science and Technology Indicators (RICYT), *Principales Indicadores de Ciencia y Tecnología* (1999); China—National Research Center for Science and Technology for Development, special tabulations (2002); India—Department of Science and Technology; Japan—Government of Japan, Ministry of Education, Culture and Science, *Monbusho Survey of Education, special tabulations* (2005), and Division of Higher Education, special tabulations (2005); Taiwan—Ministry of Education, *Educational Statistics of the Republic of China: 2004* (2004); Germany—Federal Statistical Office, *Prüfungen an Hochschulen 2003* (2004); United Kingdom—Higher Education Statistics Agency, special tabulations (2005); Russia—Center for Science Research and Statistics, unpublished tabulations (2001); Chile—RICYT; Brazil—Ministry of Education and Culture, *Coordenação de Aperfeiçoamento de Pessoal de Nível Superior*, unpublished tabulations (2001); Canada—Statistics Canada, special tabulations (2005), and United States—National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

## Earned S&amp;E doctoral degrees, by selected region, country/economy, sex, and field: 2002 or most recent year

Sex and location	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	Non-S&E
<b>Male</b>								
Asia.....	18,025	9,890	2,002	320	1,173	1,089	5,306	8,135
Japan (2004) <sup>a</sup> .....	11,384	6,051	1,311	NA	845	878	3,017	5,333
Kyrgyzstan.....	151	126	81	9	6	4	26	25
South Korea.....	5,141	2,701	457	201	249	147	1,647	2,440
Taiwan (2003).....	1,349	1,012	153	110	73	60	616	337
Middle East.....	4,683	2,827	894	194	188	410	420	1,856
Iran.....	1,151	368	84	26	31	45	72	783
Israel.....	454	344	178	41	26	58	41	110
Morocco.....	1,439	1,275	419	72	0	108	65	164
Turkey.....	1,639	840	213	55	131	199	242	799
Sub-Saharan Africa.....	1,804	523	219	0	114	67	123	1,281
Ghana.....	740	194	68	0	28	24	74	546
Kenya.....	1,064	329	151	0	86	43	49	735
Europe.....	58,506	30,434	14,187	3,449	2,600	7,040	11,851	28,072
European Union.....	42,286	20,648	11,023	2,661	1,033	3,680	6,905	21,638
Austria.....	1,326	736	261	82	33	81	279	590
Belgium.....	907	602	264	97	37	72	132	305
Denmark.....	431	218	123	0	0	41	54	213
Finland.....	972	609	138	64	24	99	284	363
France.....	5,959	4,242	2,378	648	10	505	701	1,717
Germany.....	14,319	7,829	3,536	777	331	1,339	1,846	6,490
Ireland.....	311	220	122	23	7	7	61	91
Italy.....	1,912	1,068	414	0	152	29	473	844
Netherlands.....	1,572	972	294	0	147	167	364	600
Spain.....	3,769	1,808	855	265	82	251	355	1,961
Sweden.....	2,088	1,438	378	135	50	179	696	650
United Kingdom <sup>b</sup> .....	8,720	5,550	2,260	570	160	910	1,660	3,170
European Free Trade Association.....	2,320	1,059	488	127	57	86	301	1,261
Norway.....	468	96	2	0	33	40	21	372
Switzerland.....	1,852	963	486	127	24	46	280	889
Central/Eastern Europe.....	13,900	8,727	2,676	661	1,510	3,274	4,645	5,173
Bulgaria.....	218	133	29	8	11	6	42	85
Croatia.....	180	139	28	7	7	19	43	41
Czech Republic.....	872	610	182	149	57	50	172	262
Estonia.....	72	42	14	1	1	2	9	30
Georgia.....	270	169	27	0	9	54	52	101
Hungary.....	543	248	97	23	35	36	57	295
Russia.....	11,309	7,156	2,241	460	1,364	3,091	4,153	4,153
Slovak Republic.....	436	230	58	13	26	16	117	206
America.....	25,689	18,660	7,457	1,590	792	3,924	4,845	7,029
Canada (2001).....	1,925	1,500	635	95	90	295	385	425
Costa Rica.....	476	177	8	44	26	47	0	299

## Earned S&amp;E doctoral degrees, by selected region, country/economy, sex, and field: 2002 or most recent year

Sex and location	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	Non-S&E
Mexico .....	1,100	726	249	32	70	261	114	374
United States.....	22,188	16,257	6,565	1,419	606	3,321	4,346	5,931
Oceania .....	2,459	1,532	644	151	120	226	391	927
Australia.....	2,189	1,344	542	134	106	204	358	845
New Zealand .....	270	188	102	17	14	22	33	82
Female								0
Asia .....	5,980	2,054	509	84	345	464	652	3,926
Japan <sup>a</sup> (2004).....	3,776	1,245	247	NA	284	376	338	2,531
Kyrgyzstan .....	245	130	80	10	2	16	22	115
South Korea.....	1,549	524	133	57	39	43	252	1,025
Taiwan (2003) .....	410	155	49	17	20	29	40	255
Middle East .....	2,514	1,238	540	67	85	188	164	1,276
Iran .....	595	74	20	7	2	14	4	521
Israel .....	409	255	159	13	18	51	14	154
Morocco.....	677	542	270	17	0	44	44	135
Turkey.....	833	367	91	30	65	79	102	466
Sub-Saharan Africa.....	513	190	34	0	28	76	18	323
Ghana .....	64	20	3	0	1	5	8	44
Kenya.....	449	170	31	0	27	71	10	279
Europe.....	39,632	15,914	9,086	1,080	1,895	3,900	5,628	23,718
European Union .....	29,573	11,319	7,257	791	722	2,955	1,700	18,254
Austria .....	799	313	137	18	13	79	66	486
Belgium .....	506	286	158	29	22	46	31	220
Denmark.....	301	93	54	0	0	22	17	208
Finland.....	825	313	108	12	12	105	76	512
France.....	4,445	2,648	1,782	180	13	417	256	1,797
Germany .....	8,724	2,967	1,715	221	170	674	187	5,757
Ireland.....	209	131	93	6	3	18	11	78
Italy.....	2,065	890	404	0	190	31	265	1,175
Netherlands.....	984	509	195	0	75	159	80	475
Spain .....	3,136	1,354	831	118	59	226	120	1,782
Sweden.....	1,429	661	260	27	35	108	231	768
United Kingdom <sup>b</sup> .....	6,150	3,260	1,520	180	130	1,070	360	2,890
European Free Trade Association .....	1,220	387	190	21	40	90	46	833
Norway .....	272	66	0	0	26	36	4	206
Switzerland .....	948	321	190	21	14	54	42	627
Central/Eastern Europe.....	8,839	4,208	1,639	268	1,133	855	3,882	4,631
Bulgaria .....	158	93	22	9	13	2	16	65
Croatia .....	158	128	34	7	6	24	16	30
Czech Republic .....	455	250	92	20	29	53	56	205
Estonia.....	77	17	5	2	1	2	0	60
Georgia .....	288	209	64	0	6	66	9	79
Hungary .....	440	115	37	8	9	34	27	325

## Earned S&amp;E doctoral degrees, by selected region, country/economy, sex, and field: 2002 or most recent year

Sex and location	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	Non-S&E
Russia.....	6,965	3,253	1,326	216	1,051	660	3,712	3,712
Slovak Republic.....	298	143	59	6	18	14	46	155
America.....	20,852	11,854	5,310	461	373	4,701	986	8,998
Canada (2001).....	1,390	835	330	0	35	415	55	555
Costa Rica.....	359	102	6	17	6	49	1	257
Mexico.....	701	360	140	6	19	161	34	341
United States.....	18,402	10,557	4,834	438	313	4,076	896	7,845
Oceania.....	1,961	942	454	47	59	272	110	1,019
Australia.....	1,721	810	396	40	52	223	99	911
New Zealand.....	240	132	58	7	7	49	11	108

NA = not available

\*Male/female breakouts for number who have completed doctoral degree course work in S&amp;E field; number very close to conferred degrees.

\*Data rounded to nearest 10.

NOTES: Physical/biological sciences include physical, biological, earth, atmospheric, and ocean sciences. Data for doctoral degrees use the International Standard Classification of Education (ISCED 97), level 6. S&amp;E data do not include health fields.

SOURCES: Organisation for Economic Co-operation and Development, Center for Education Research and Innovation, Education database, [www1.oecd.org/scripts/cde/members/edu\\_uoeauthenticate.asp](http://www1.oecd.org/scripts/cde/members/edu_uoeauthenticate.asp); United Nations Educational, Scientific, and Cultural Organization (UNESCO), Institute for Statistics database, <http://www.unesco.org/statistics>. Japan—Government of Japan, Ministry of Education, Culture and Science, *Monbusho Survey of Education* (2005); Taiwan—Ministry of Education, *Educational Statistics of the Republic of China: 2004* (2004); Germany—Federal Statistical Office, *Prüfungen an Hochschulen 2003* (2004); United Kingdom—Higher Education Statistics Agency, special tabulations (2005); Russia—Center for Science Research and Statistics, unpublished tabulations (2001); Mexico—National Association of Universities and Institutions of Higher Education, *Anuario Estadístico 2001: Población Escolar de Posgrado* (2002); Canada—Statistics Canada, special tabulations (2005); and United States—National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates; and Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

Appendix table 2-42  
**S&E doctoral degrees, by selected Western industrialized country and field: 1983–2003**

Country and field	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
France .....	NA	NA	NA	5,963	7,198	9,295	9,801	11,073	10,173	NA	NA	NA	NA
All S&E .....	NA	NA	NA	4,888	5,384	6,820	7,027	8,962	7,054	NA	NA	NA	NA
Physical/biological sciences .....	NA	NA	NA	2,615	2,883	3,631	3,572	4,394	2,966	NA	NA	NA	NA
Mathematics/computer sciences .....	NA	NA	NA	722	831	1,065	1,129	869	769	NA	NA	NA	NA
Agricultural sciences .....	NA	NA	NA	37	38	52	84	207	179	NA	NA	NA	NA
Social/behavioral sciences .....	NA	NA	NA	672	539	797	815	1,629	1,390	NA	NA	NA	NA
Engineering .....	NA	NA	NA	842	1,093	1,275	1,427	1,863	1,750	NA	NA	NA	NA
Germany .....	13,637	14,951	16,064	17,901	22,462	22,000	22,387	24,174	24,545	24,671	24,796	23,838	23,043
All S&E .....	4,978	5,738	6,576	7,568	10,465	10,200	10,889	11,728	11,984	11,895	11,803	11,017	10,796
Physical/biological sciences .....	2,404	2,986	3,440	4,095	5,326	5,700	5,868	6,418	6,271	6,123	5,974	5,521	5,251
Mathematics/computer sciences .....	274	274	294	383	418	500	663	785	980	968	956	898	998
Agricultural sciences .....	361	414	468	518	709	500	507	521	522	497	472	448	501
Social/behavioral sciences .....	966	968	1,068	1,200	1,483	1,400	1,741	1,775	1,982	2,082	2,181	1,915	2,013
Engineering .....	973	1,096	1,306	1,372	2,529	2,100	2,110	2,229	2,229	2,225	2,220	2,235	2,033
United Kingdom .....	6,530	6,210	6,840	7,850	8,390	8,720	7,560	10,210	11,340	14,120	14,210	14,210	14,870
All S&E .....	4,760	4,610	5,020	5,820	6,300	6,100	5,130	6,770	7,390	8,620	8,520	8,520	8,810
Physical/biological sciences .....	2,430	2,410	2,580	2,940	3,150	3,030	2,580	3,420	3,670	4,370	4,380	4,380	3,780
Mathematics/computer sciences .....	290	280	320	420	540	530	450	590	680	770	760	760	750
Agricultural sciences .....	180	160	190	240	250	280	270	320	330	340	340	340	300
Social/behavioral sciences .....	660	690	730	880	910	740	500	680	910	1,140	1,180	1,180	1,970
Engineering .....	1,200	1,070	1,190	1,350	1,450	1,520	1,330	1,760	1,810	2,010	1,860	1,860	2,020
United States .....	31,281	31,296	32,370	34,327	37,531	39,800	41,748	42,540	41,090	41,357	40,808	39,964	40,710
All S&E .....	19,274	19,663	20,694	22,706	25,061	26,640	27,864	28,653	27,339	27,557	27,160	26,226	26,891
Physical/biological sciences .....	7,818	8,055	8,479	9,074	10,131	10,759	11,326	11,857	11,373	11,610	11,452	11,336	11,430
Mathematics/computer sciences .....	987	998	1,190	1,471	1,838	2,026	2,187	2,032	1,938	1,909	1,833	1,725	1,860
Agricultural sciences .....	1,015	1,110	976	1,086	1,073	968	1,036	982	966	943	853	893	922
Social/behavioral sciences .....	6,673	6,334	6,337	6,532	6,805	7,189	7,307	7,667	7,732	7,774	7,520	7,201	7,414
Engineering .....	2,781	3,166	3,712	4,543	5,214	5,698	6,008	6,115	5,330	5,321	5,502	5,071	5,265

NA = not available

NOTES: Physical/biological sciences include physical, biological, earth, atmospheric, and ocean sciences. Data for doctoral degrees use the International Standard Classification of Education (ISCED 97), level 6. S&E data do not include health fields. French doctoral degrees not available in same data series before 1989 or after 1999. German doctoral degrees include those of former East Germany from 1990 and thereafter. Data for United Kingdom rounded to nearest 10.

SOURCES: France—National Ministry of Education and Research, *Rapport sur les Études Doctorales* (annual series); Germany—Federal Statistical Office, *Prüfungen an Hochschulen* (annual series); United Kingdom—Higher Education Statistics Agency, special tabulations (2005); United States—National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

Science and Engineering Indicators 2006

Appendix table 2-43

## S&amp;E doctoral degrees, by selected Asian country/economy and field: Selected years, 1983–2003

Country/economy and field	1983	1985	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
China.....	19	234	622	1,904	2,556	2,114	4,364	6,793	10,160	11,383	12,465	NA	NA
All S&E.....	NA	125	218	1,024	1,198	1,895	3,417	5,328	6,778	7,304	8,153	NA	NA
Physical/biological sciences.....	NA	33	52	141	252	528	1,191	1,678	2,135	2,306	2,655	NA	NA
Mathematics/computer sciences.....	NA	23	31	78	95	103	187	334	417	NA	NA	NA	NA
Agricultural sciences.....	NA	1	8	56	37	92	182	328	444	462	536	NA	NA
Social/behavioral sciences.....	NA	0	0	23	47	102	198	325	513	514	621	NA	NA
Engineering.....	NA	68	127	726	767	1,069	1,659	2,643	3,269	4,484	4,341	NA	NA
India.....	6,597	7,438	7,603	8,284	8,383	9,070	9,070	10,408	10,951	11,296	11,544	11,974	13,733
All S&E.....	3,886	4,007	4,123	4,209	4,294	4,320	4,000	4,764	5,317	5,395	5,394	5,527	6,318
Physical/biological sciences.....	2,800	2,922	2,937	3,044	2,950	3,386	2,950	3,498	3,836	3,885	3,727	3,955	4,497
Mathematics/computer sciences.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences.....	575	576	583	579	715	611	715	968	785	787	889	838	1,042
Social/behavioral sciences.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Engineering.....	511	509	603	586	629	323	335	298	696	723	778	734	779
Japan.....	7,233	7,978	9,157	10,036	10,758	11,576	12,645	13,921	15,470	15,357	16,078	16,183	16,314
All S&E.....	2,676	3,088	3,248	3,561	3,874	4,438	5,205	6,157	7,082	7,089	7,401	7,461	7,581
Physical/biological sciences.....	774	860	837	876	863	1,009	1,182	1,315	1,542	1,579	1,586	1,602	1,651
Mathematics/computer sciences.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences.....	515	697	715	734	791	824	956	1,043	1,100	1,147	1,241	1,248	1,258
Social/behavioral sciences.....	97	127	149	177	191	243	276	388	506	563	610	656	751
Engineering.....	1,290	1,404	1,547	1,774	2,029	2,362	2,791	3,411	3,934	3,800	3,964	3,955	3,921
South Korea.....	845	1,400	1,906	2,458	2,984	3,583	4,462	4,999	5,586	6,143	NA	6,690	NA
All S&E.....	281	548	759	984	1,135	1,421	1,920	2,189	2,607	2,865	NA	3,225	NA
Physical/biological sciences.....	83	212	277	192	225	244	358	427	438	614	NA	590	NA
Mathematics/computer sciences.....	0	0	0	105	99	124	169	187	188	247	NA	258	NA
Agricultural sciences.....	60	89	110	175	156	172	223	178	230	242	NA	288	NA
Social/behavioral sciences.....	41	50	102	97	189	222	232	240	168	108	NA	190	NA
Engineering.....	97	197	270	415	466	659	938	1,157	1,583	1,654	NA	1,899	NA
Taiwan.....	86	115	225	314	410	701	848	1,187	1,337	1,400	1,463	NA	1,759
All S&E.....	58	109	197	257	370	513	650	839	892	931	970	NA	1,167
Physical/biological sciences.....	8	20	35	42	62	97	115	163	150	147	144	NA	202
Mathematics/computer sciences.....	4	4	14	18	32	45	55	88	119	113	107	NA	127
Agricultural sciences.....	17	10	28	36	36	48	63	79	76	83	90	NA	93
Social/behavioral sciences.....	15	16	22	41	31	36	44	76	65	87	108	NA	89
Engineering.....	14	59	98	120	209	287	373	433	482	502	521	NA	656

NA = not available

NOTES: Physical/biological sciences include physical, biological, earth, atmospheric, and ocean sciences. Data for doctoral degrees use the International Standard Classification of Education (ISCED 97), level 6. S&E data do not include health fields. Japanese data include thesis doctorates, called *ronbun hakase*, earned by employees in industry. In Japanese higher education data, mathematics is included in natural sciences; computer sciences are included in engineering.

SOURCES: China—National Research Center for Science and Technology for Development and *Educational Yearbook, 2002*; India—Department of Science and Technology; Japan—Government of Japan, Ministry of Education, Culture and Science, *Monbusho Survey of Education* (annual series); and Division of Higher Education, special tabulations (2005); South Korea—Organisation for Economic Co-operation and Development, Center for Education Research and Innovation, Education database, [http://www1.oecd.org/scripts/cde/members/EDU\\_UOEAuthenticate.asp](http://www1.oecd.org/scripts/cde/members/EDU_UOEAuthenticate.asp); and Taiwan—Ministry of Education, *Educational Statistics of the Republic of China* (annual series).

Appendix table 2-44

(Page 1 of 2)

**Foreign S&E student enrollment in U.K. universities, by enrollment level, place of origin, and field: 1994 and 2004**

Enrollment level and place of origin	All S&E fields	Physical/ biological/ agricultural sciences	Mathematics/ computer sciences	Social/ behavioral sciences	Engineering
<b>1994</b>					
All undergraduates .....	393,040	131,370	69,730	79,260	112,690
All foreign.....	34,530	7,770	4,270	6,550	15,940
Greece .....	3,830	720	610	570	1,920
Malaysia .....	3,760	170	490	400	2,700
Irish Republic .....	3,110	1,300	340	220	1,260
Germany .....	2,660	1,010	210	640	800
France.....	2,640	880	270	470	1,010
Hong Kong .....	2,200	220	410	470	1,110
Singapore.....	1,990	140	200	260	1,390
United States.....	1,220	520	50	560	90
Canada .....	160	90	20	40	20
China .....	150	10	20	10	110
Other.....	12,820	2,730	1,660	2,910	5,530
Foreign (%).....	8.8	5.9	6.1	8.3	14.1
All graduates .....	99,980	35,270	15,170	22,890	26,650
All foreign.....	28,850	8,100	3,490	8,010	9,260
Greece .....	2,410	580	460	500	870
Malaysia .....	1,570	320	200	220	820
Irish Republic .....	1,040	490	110	170	280
Germany .....	1,290	390	200	340	360
France.....	950	290	80	190	400
Hong Kong .....	1,030	90	190	400	360
Singapore.....	570	80	150	90	250
United States.....	1,090	240	70	670	110
Canada .....	600	140	40	320	110
China .....	1,330	410	140	120	660
Other.....	16,970	5,070	1,870	4,990	5,040
Foreign (%).....	28.9	23.0	23.0	35.0	34.7
<b>2004</b>					
All undergraduates .....	526,990	136,940	137,120	156,890	96,030
All foreign.....	52,180	7,520	13,500	13,680	17,470
China .....	7,640	720	3,070	2,090	1,760
Greece .....	4,610	530	1,010	1,100	1,960
Malaysia .....	3,590	140	720	280	2,440
France.....	2,960	460	560	460	1,490
Hong Kong .....	2,820	480	900	610	830
Irish Republic .....	2,490	790	320	550	820
Germany .....	2,130	390	360	990	390
United States.....	1,650	400	140	1,020	100
India.....	1,340	110	420	180	630
Spain .....	1,270	270	340	230	430
Other.....	21,690	3,240	5,650	6,170	6,620
Foreign (%).....	9.9	5.5	9.8	8.7	18.2
All graduates .....	154,020	39,080	31,300	44,870	38,770
All foreign.....	63,420	12,030	13,580	17,320	20,490
China .....	9,010	900	2,780	1,950	3,380
Greece .....	6,700	1,040	1,490	1,510	2,660
India.....	5,780	860	1,950	460	2,510
United States.....	2,820	540	270	1,750	250
Malaysia .....	2,240	300	480	190	1,280

Appendix table 2-44

(Page 2 of 2)

**Foreign S&E student enrollment in U.K. universities, by enrollment level, place of origin, and field: 1994 and 2004**

Enrollment level and place of origin	All S&E fields	Physical/ biological/ agricultural sciences	Mathematics/ computer sciences	Social/ behavioral sciences	Engineering
France.....	2,090	630	300	350	800
Germany .....	2,090	480	350	800	470
Irish Republic .....	1,630	510	220	500	410
Pakistan .....	1,520	150	630	190	550
Italy.....	1,510	460	150	580	320
Other.....	28,030	6,170	4,970	9,050	7,850
Foreign (%).....	41.2	30.8	43.4	38.6	52.9

NOTES: Data rounded to nearest 10. Detail may not add to total because of rounding. Percentages are based on unrounded data.

SOURCE: Higher Education Statistics Agency, special tabulations (2005).

Appendix table 2-45

**Foreign S&E doctoral student enrollment in French universities, by field and place of origin: 2003**

Place of origin	All fields	All S&E fields	Economics/ business	Social sciences/ humanities	Physical/ life sciences	Engineering	Non-S&E
All doctoral students .....	162,157	112,325	28,611	35,774	16,122	31,818	49,832
France .....	118,767	82,428	20,143	27,349	13,193	21,743	36,339
Foreign .....	43,390	29,897	8,468	8,425	2,929	10,075	13,493
Africa .....	20,933	15,451	4,878	3,642	1,147	5,784	5,482
America.....	3,636	2,472	407	1,088	346	631	1,164
Asia.....	9,227	6,113	1,792	1,516	757	2,048	3,114
European Union.....	4,971	2,949	491	1,307	392	759	2,022
Other Europe .....	4,561	2,873	886	863	279	845	1,688
Oceania.....	46	29	10	7	5	7	17
Other.....	16	10	4	2	3	1	6
Foreign (%).....	26.8	26.6	29.6	23.6	18.2	31.7	27.1

NOTES: Graduate enrollment includes four advanced, two predoctoral, and two doctoral degree programs. Some broad fields, such as economics/business and social sciences/humanities, include some non-S&E disciplines.

SOURCE: French National Ministry of Education and Research, special tabulations (2005).

*Science and Engineering Indicators 2006*

Appendix table 2-46

## Foreign S&amp;E student enrollment in Japanese universities, by enrollment level, place of origin, and field: 2004

Enrollment level and place of origin	All fields	All S&E fields	Physical/ biological sciences	Agricultural sciences	Social/ behavioral sciences	Engineering <sup>a</sup>	Other
All undergraduates.....	2,505,923	1,118,832	87,398	69,672	961,762	439,107	1,387,091
Foreign.....	57,964	34,051	595	540	32,916	5,863	23,913
China.....	41,172	29,192	324	318	25,470	3,080	11,980
South Korea.....	11,929	7,018	185	122	5,403	1,308	4,911
Malaysia.....	1,239	1,042	15	15	98	914	197
Vietnam.....	539	421	6	10	242	163	118
Indonesia.....	298	233	3	14	152	64	65
Thailand.....	288	226	3	12	179	32	62
Mongolia.....	213	224	1	9	197	17	-11
Sri Lanka.....	171	148	1	4	101	42	23
United Kingdom.....	137	78	1	0	73	4	59
United States.....	233	76	7	0	65	4	157
Foreign (%).....	2.3	3.0	0.7	0.8	3.4	1.3	1.7
All graduates.....	236,158	140,822	20,298	12,691	29,014	78,819	95,336
Master's.....	162,712	109,062	13,954	8,337	21,536	65,235	53,650
Doctoral.....	73,446	31,760	6,344	4,354	7,478	13,584	41,686
Foreign.....	26,486	16,784	916	2,164	7,383	6,321	9,702
China.....	14,481	8,981	336	833	4,979	2,833	5,500
South Korea.....	3,996	2,095	110	220	803	962	1,901
Indonesia.....	796	655	66	157	104	328	141
Thailand.....	841	604	24	152	128	300	237
Bangladesh.....	713	505	63	134	79	229	208
Vietnam.....	604	480	14	94	175	197	124
Malaysia.....	362	288	15	25	74	174	74
Philippines.....	321	241	34	60	74	73	80
Myanmar.....	228	170	10	46	51	63	58
Sri Lanka.....	204	159	13	37	37	72	45
Nepal.....	205	147	12	28	31	76	58
Foreign (%).....	11.2	11.9	4.5	17.1	25.4	8.0	10.2

<sup>a</sup>Includes computer sciences.

NOTES: Data are for students of non-Japanese citizenship, including permanent residents. Undergraduates include 4-year colleges and universities.

SOURCE: Government of Japan, Ministry of Education, Culture, and Science, Division of Higher Education, special tabulations (2005).

Science and Engineering Indicators 2006

Appendix table 2-47  
**S&E student enrollment in Canadian universities, by enrollment level, top place of origin, and field: 2001**

Enrollment level and place of origin	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering/ applied sciences
Undergraduate.....						
All S&E .....	292,940	65,110	38,630	9,900	119,860	59,440
Foreign .....	16,150	2,335	4,540	240	4,760	4,275
Hong Kong .....	2,175	155	1,360	15	290	355
China .....	2,025	475	180	100	1,030	240
Taiwan .....	775	35	200	10	70	460
United Kingdom.....	985	140	115	25	420	285
United States.....	340	25	245	0	20	50
India.....	440	45	220	0	80	95
France.....	630	85	195	10	205	135
Sri Lanka.....	440	45	145	5	65	180
South Korea .....	325	55	60	15	175	20
Iran .....	320	25	70	0	55	170
Other.....	7,695	1,250	1,750	60	2,350	2,285
Foreign (%).....	5.5	3.6	11.8	2.4	4.0	7.2
Graduate.....						
All S&E .....	53,710	13,200	5,720	3,455	16,855	14,480
Foreign .....	11,490	2,295	1,785	575	2,545	4,290
China .....	2,245	285	675	50	225	1,010
France.....	1,115	370	45	85	280	335
United States.....	745	240	80	40	260	125
Morocco.....	460	65	90	25	55	225
India.....	355	55	35	15	60	190
Iran .....	340	55	35	15	20	215
Mexico .....	315	50	20	30	85	130
Tunisia .....	300	25	80	10	75	110
Romania.....	280	65	70	0	45	100
Algeria .....	265	30	50	15	25	145
Other.....	5,070	1,055	605	290	1,415	1,705
Foreign (%).....	21.4	17.4	31.2	16.6	15.1	29.6

NOTE: Data are rounded to nearest 5.

SOURCE: Statistics Canada, Center for Education Statistics, special tabulations (2005).

Appendix table 2-48

**Doctoral degrees earned by foreign students, by selected industrialized country and field: 2003 or most recent year**

Country and field	All	Foreign	
		Number	Percent
Germany.....	23,043	2,308	10.0
S&E.....	10,626	1,518	14.3
Physical/biological sciences.....	5,251	825	15.7
Mathematics/computer sciences.....	998	133	13.3
Agricultural sciences.....	501	167	33.3
Social/behavioral sciences.....	2,013	159	7.9
Engineering.....	1,863	234	12.6
Non-S&E.....	12,417	790	6.4
Japan <sup>a</sup> .....	11,352	1,475	13.0
S&E.....	5,825	745	12.8
Physical/biological sciences.....	1,415	59	4.2
Mathematics/computer sciences.....	NA	NA	NA
Agricultural sciences.....	900	206	22.9
Social/behavioral sciences.....	525	81	15.4
Engineering.....	2,985	399	13.4
Non-S&E.....	5,527	730	13.2
United Kingdom <sup>b</sup> (2004).....	15,260	5,610	36.8
S&E.....	9,150	3,540	38.7
Physical/biological sciences.....	3,960	1,130	28.5
Mathematics/computer sciences.....	880	430	48.3
Agricultural sciences.....	320	150	46.2
Social/behavioral sciences.....	1,950	700	35.7
Engineering.....	2,040	1,150	56.2
Non-S&E.....	6,110	2,060	33.8
United States.....	40,710	12,216	30.0
S&E.....	26,891	9,871	36.7
Physical/biological sciences.....	11,430	3,692	32.3
Mathematics/computer sciences.....	1,860	921	49.5
Agricultural sciences.....	922	426	46.2
Social/behavioral sciences.....	7,414	1,658	22.4
Engineering.....	5,265	3,174	60.3
Non-S&E.....	13,819	2,345	17.0

NA = not available

<sup>a</sup>University-based doctorates only, excluding *ronbun hakase* doctorates awarded for research within industry. Includes mathematics in natural sciences and computer sciences in engineering.<sup>b</sup>Data rounded to nearest 10. Detail may not add to total because of rounding. Percentages based on unrounded data.

NOTES: Physical/biological sciences include physical, biological, earth, atmospheric, and ocean sciences. Data for doctoral degrees use the International Standard Classification of Education (ISCED 97), level 6. S&amp;E data do not include health fields. For each country, data are for doctoral degree recipients with foreign citizenship, including permanent and temporary residents.

SOURCES: Germany—Federal Statistical Office, *Prüfungen an Hochschulen* 2003 (2004); Japan—Government of Japan, Ministry of Education, Culture, and Science, Division of Higher Education, special tabulations (2005); United Kingdom—Higher Education Statistics Agency, special tabulations (2005), and United States—National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.

