

Appendix table 2-24

**S&E graduate enrollment, by sex and field: 2000–11**

Sex/field	2000	2001	2002	2003	2004	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
Both sexes													
S&E	493,311	509,607	540,404	567,121	574,463	582,226	597,643	607,823	604,815	613,591	611,629	611,841	608,171
Engineering	104,112	109,493	119,668	127,377	123,566	120,565	123,041	130,255	127,075	131,951	137,873	142,446	143,390
Aerospace	3,407	3,451	3,685	4,048	4,089	4,170	4,482	4,616	4,616	4,902	5,266	5,540	5,691
Chemical	7,056	6,913	7,414	7,516	7,452	7,173	7,261	7,383	7,584	7,892	8,188	8,668	8,828
Civil	16,451	16,665	17,713	18,890	18,561	18,114	17,802	19,867	16,071	16,931	18,638	19,559	19,596
Electrical	33,611	36,100	39,948	41,763	38,995	37,450	38,265	40,207	40,588	41,164	41,218	41,336	41,580
Industrial	12,119	12,940	14,033	14,313	13,852	13,650	13,829	14,290	14,474	15,692	15,825	15,205	14,494
Materials	4,377	4,721	4,992	5,131	5,059	5,160	5,268	5,365	5,314	5,539	5,863	6,274	6,649
Mechanical	15,235	15,852	17,139	18,393	17,852	17,373	17,919	18,366	18,347	19,585	21,243	22,509	21,883
Other	11,856	12,851	14,744	17,323	17,706	17,475	18,215	20,161	20,081	20,246	21,632	23,355	24,669
Science	389,199	400,114	420,736	439,744	450,897	461,661	474,602	477,568	477,740	481,640	473,756	469,395	464,781
Natural sciences	255,406	263,978	279,369	292,453	299,439	304,952	314,602	312,413	310,489	313,706	303,195	298,812	292,097
Agricultural sciences	12,023	12,235	12,698	13,197	13,445	13,123	13,016	13,222	13,528	14,153	15,200	15,656	16,129
Biological sciences <sup>b</sup>	56,282	57,639	61,088	64,701	66,565	68,479	69,941	71,663	73,516	74,678	75,660	77,726	79,540
Earth, atmospheric, and ocean sciences	13,941	13,841	14,240	14,620	15,131	14,836	14,920	14,675	14,100	14,389	14,839	15,655	15,820
Atmospheric sciences	963	924	1,036	1,150	1,086	1,146	1,079	1,117	1,178	1,400	1,355	1,455	1,513
Earth sciences	6,596	6,544	6,712	6,889	7,358	7,212	7,177	7,061	7,020	7,089	7,539	8,251	8,361
Oceanography	2,668	2,585	2,618	2,695	2,801	2,760	2,770	2,663	2,615	2,634	2,633	2,556	2,680
Other geosciences	3,714	3,788	3,874	3,886	3,886	3,718	3,894	3,834	3,287	3,266	3,312	3,393	3,266
Mathematics/computer sciences	63,000	68,847	73,432	73,161	69,947	68,188	68,468	70,294	69,221	70,953	73,387	74,682	75,035
Computer sciences	47,350	52,196	55,269	53,696	50,016	47,978	47,653	48,959	48,246	49,553	51,161	51,546	51,234
Mathematics/statistics	15,650	16,651	18,163	19,465	19,931	20,210	20,815	21,335	20,975	21,400	22,226	23,136	23,801
Medical/other health sciences	79,775	80,378	85,570	92,476	98,590	103,951	111,356	105,448	103,300	102,214	85,960	76,120	65,879
Medical sciences	22,815	24,012	26,841	29,440	29,762	31,223	33,437	33,137	31,876	32,311	32,508	33,862	34,348
Other health sciences <sup>c</sup>	56,960	56,366	58,729	63,036	68,828	72,728	77,919	72,311	71,424	69,903	53,452	42,258	31,531
Physical sciences	30,385	31,038	32,341	34,298	35,761	36,375	36,901	37,111	36,824	37,319	38,149	38,973	39,694
Astronomy	888	916	990	1,080	1,119	1,191	1,211	1,233	1,232	1,275	1,409	1,331	1,345
Chemistry	18,105	18,366	19,045	20,049	20,776	21,101	21,351	21,424	21,298	21,574	22,094	22,436	22,802
Physics	10,841	11,248	11,701	12,555	13,298	13,472	13,722	13,845	13,816	13,862	14,060	14,507	14,829
Other physical sciences	551	508	605	614	568	611	617	609	478	608	586	699	718
Social/behavioral sciences	133,793	136,136	141,367	147,291	151,458	156,709	160,000	165,155	162,767	162,375	164,004	162,639	166,147
Psychology <sup>c</sup>	50,466	50,454	51,152	52,162	54,126	57,282	57,653	60,284	59,617	58,991	56,184	53,419	54,486
Social sciences	83,327	85,682	90,215	95,129	97,332	99,427	102,347	104,871	103,150	103,384	107,820	109,220	111,661
Anthropology	7,626	7,491	7,481	7,789	7,826	7,750	8,150	8,099	8,129	8,333	8,359	8,528	8,406
Economics	12,827	13,569	14,196	14,634	14,513	13,932	14,290	14,454	14,586	15,103	16,215	16,497	17,015
History of science	532	571	663	737	994	965	968	1,119	1,054	1,177	1,006	705	597
Linguistics	2,674	2,744	2,875	3,028	2,941	3,187	3,074	3,076	2,879	3,095	3,170	3,132	3,219
Political science/public administration	31,131	31,805	34,934	36,880	39,023	40,780	41,784	41,854	41,349	40,871	43,919	45,045	49,660
Sociology	9,397	9,620	9,665	9,900	9,713	9,866	9,872	10,565	10,324	10,655	10,307	10,212	9,959
Other social sciences	19,140	19,882	20,401	22,161	22,322	22,947	24,209	25,704	24,829	24,150	24,844	25,101	22,805
Multidisciplinary/interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	NA	4,484	5,559	6,557	7,944	6,537

Appendix table 2-24

**S&E graduate enrollment, by sex and field: 2000–11**

Sex/field	2000	2001	2002	2003	2004	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
Male													
S&E	262,109	271,155	287,059	298,682	296,714	295,291	299,818	308,152	306,273	313,363	320,738	327,528	328,826
Engineering	83,366	87,236	94,701	99,790	96,294	93,670	95,097	100,281	98,577	103,026	107,552	111,037	111,092
Aerospace	2,938	2,966	3,169	3,445	3,489	3,563	3,773	3,916	3,916	4,180	4,532	4,756	4,909
Chemical	5,181	5,084	5,419	5,416	5,346	5,094	5,102	5,148	5,318	5,483	5,572	5,946	5,978
Civil	12,174	12,162	12,808	13,492	13,120	12,709	12,379	13,519	11,335	12,166	13,337	13,988	14,007
Electrical	28,075	29,888	32,678	33,969	31,794	30,662	31,239	32,840	33,149	33,824	34,044	34,143	34,150
Industrial	9,406	10,132	10,957	11,047	10,622	10,354	10,363	10,770	10,930	11,978	12,025	11,521	10,884
Materials	3,336	3,548	3,741	3,800	3,738	3,812	3,878	3,905	3,841	4,006	4,274	4,520	4,773
Mechanical	13,403	13,908	15,056	16,039	15,396	14,965	15,434	15,751	15,733	16,836	18,253	19,323	18,720
Other	8,853	9,548	10,873	12,582	12,789	12,511	12,929	14,432	14,355	14,553	15,515	16,840	17,671
Science	178,743	183,919	192,358	198,892	200,420	201,621	204,721	207,871	207,696	210,337	213,186	216,491	217,734
Natural sciences	125,060	129,753	136,353	141,081	141,002	141,499	143,451	144,751	143,574	145,952	146,719	149,298	148,967
Agricultural sciences	6,935	6,892	7,045	7,171	7,187	6,921	6,717	6,778	6,901	7,262	7,715	7,837	8,103
Biological sciences <sup>b</sup>	26,475	26,590	27,677	28,818	29,276	29,958	30,572	31,012	31,899	32,247	32,578	33,681	34,508
Earth, atmospheric, and ocean sciences	8,188	7,949	7,993	8,082	8,199	7,941	7,916	7,724	7,450	7,768	8,024	8,455	8,645
Atmospheric sciences	695	626	703	776	723	758	712	722	759	951	908	971	1,036
Earth sciences	4,141	4,061	4,099	4,125	4,299	4,169	4,096	4,006	3,980	4,047	4,344	4,758	4,900
Oceanography	1,401	1,330	1,309	1,303	1,292	1,279	1,273	1,199	1,176	1,201	1,202	1,133	1,186
Other geosciences	1,951	1,932	1,882	1,878	1,885	1,735	1,835	1,797	1,535	1,569	1,570	1,593	1,523
Mathematics/computer sciences	43,140	47,275	50,521	51,056	49,173	48,706	48,713	50,307	49,526	50,657	52,355	53,748	54,068
Computer sciences	33,270	36,894	39,244	38,880	36,739	35,933	35,591	36,753	36,229	37,008	38,108	38,739	38,627
Mathematics/statistics	9,870	10,381	11,277	12,176	12,434	12,773	13,122	13,554	13,297	13,649	14,247	15,009	15,441
Medical/other health sciences	19,052	19,345	20,842	22,434	22,706	23,324	24,637	24,072	23,083	23,032	20,589	19,430	17,061
Medical sciences	9,748	10,136	11,045	11,917	11,506	11,680	12,377	12,243	11,595	11,477	11,652	11,619	11,477
Other health sciences <sup>b</sup>	9,304	9,209	9,797	10,517	11,200	11,644	12,260	11,829	11,488	11,555	8,937	7,811	5,584
Physical sciences	21,270	21,702	22,275	23,520	24,461	24,649	24,896	24,858	24,715	24,986	25,458	26,147	26,582
Astronomy	621	651	688	735	764	797	804	819	818	865	978	908	922
Chemistry	11,349	11,511	11,720	12,210	12,544	12,678	12,707	12,603	12,528	12,591	12,872	13,175	13,361
Physics	8,931	9,206	9,500	10,189	10,797	10,803	11,012	11,069	11,048	11,104	11,214	11,608	11,850
Other physical sciences	369	334	367	386	356	371	373	367	321	426	394	456	449
Social/behavioral sciences	53,683	54,166	56,005	57,811	59,418	60,122	61,270	63,120	62,198	62,060	63,719	63,742	65,661
Psychology <sup>b</sup>	13,594	13,147	13,435	13,383	13,970	13,963	13,950	14,690	14,501	14,376	13,648	13,181	13,565
Social sciences	40,089	41,019	42,570	44,428	45,448	46,159	47,320	48,430	47,697	47,684	50,071	50,561	52,096
Anthropology	2,941	2,929	2,864	2,919	2,853	2,810	2,935	2,948	2,960	3,019	3,022	3,038	3,049
Economics	8,273	8,739	9,084	9,226	9,174	8,803	9,038	8,992	9,038	9,374	10,146	10,356	10,563
History of science	313	327	362	425	580	525	540	637	605	681	597	389	331
Linguistics	930	951	984	1,023	1,014	1,132	1,088	1,083	1,003	1,093	1,230	1,244	1,279
Political science/public administration	15,204	15,304	16,315	17,038	18,203	18,898	19,545	19,708	19,529	19,175	20,540	21,075	23,497
Sociology	3,354	3,388	3,444	3,493	3,372	3,528	3,532	3,778	3,706	3,791	3,777	3,668	3,570
Other social sciences	9,074	9,381	9,517	10,304	10,252	10,463	10,642	11,284	10,856	10,551	10,759	10,791	9,807
Multidisciplinary/interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	NA	1,924	2,325	2,748	3,451	3,106

Appendix table 2-24

**S&E graduate enrollment, by sex and field: 2000–11**

Sex/field	2000	2001	2002	2003	2004	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
Female													
S&E	231,202	238,452	253,345	268,439	277,749	286,935	297,825	299,671	298,542	300,228	290,891	284,313	279,345
Engineering	20,746	22,257	24,967	27,587	27,272	26,895	27,944	29,974	28,498	28,925	30,321	31,409	32,298
Aerospace	469	485	516	603	600	607	709	700	700	722	734	784	782
Chemical	1,875	1,829	1,995	2,100	2,106	2,079	2,159	2,235	2,266	2,409	2,616	2,722	2,850
Civil	4,277	4,503	4,905	5,398	5,441	5,405	5,423	6,348	4,736	4,765	5,301	5,571	5,589
Electrical	5,536	6,212	7,270	7,794	7,201	6,788	7,026	7,367	7,439	7,340	7,174	7,193	7,430
Industrial	2,713	2,808	3,076	3,266	3,230	3,296	3,466	3,520	3,544	3,714	3,800	3,684	3,610
Materials	1,041	1,173	1,251	1,331	1,321	1,348	1,390	1,460	1,473	1,533	1,589	1,754	1,876
Mechanical	1,832	1,944	2,083	2,354	2,456	2,408	2,485	2,615	2,614	2,749	2,990	3,186	3,163
Other	3,003	3,303	3,871	4,741	4,917	4,964	5,286	5,729	5,726	5,693	6,117	6,515	6,998
Science	210,456	216,195	228,378	240,852	250,477	260,040	269,881	269,697	270,044	271,303	260,570	252,904	247,047
Natural sciences	130,346	134,225	143,016	151,372	158,437	163,453	171,151	167,662	166,915	167,754	156,476	149,514	143,130
Agricultural sciences	5,088	5,343	5,653	6,026	6,258	6,202	6,299	6,444	6,627	6,891	7,485	7,819	8,026
Biological sciences <sup>b</sup>	29,807	31,049	33,411	35,883	37,289	38,521	39,369	40,651	41,617	42,431	43,082	44,045	45,032
Earth, atmospheric, and ocean sciences	5,753	5,892	6,247	6,538	6,932	6,895	7,004	6,951	6,650	6,621	6,815	7,200	7,175
Atmospheric sciences	268	298	333	374	363	388	367	395	419	449	447	484	477
Earth sciences	2,455	2,483	2,613	2,764	3,059	3,043	3,081	3,055	3,040	3,042	3,195	3,493	3,461
Oceanography	1,267	1,255	1,309	1,392	1,509	1,481	1,497	1,464	1,439	1,433	1,431	1,423	1,494
Other geosciences	1,763	1,856	1,992	2,008	2,001	1,983	2,059	2,037	1,752	1,697	1,742	1,800	1,743
Mathematics/computer sciences	19,860	21,572	22,911	22,105	20,774	19,482	19,755	19,987	19,695	20,296	21,032	20,934	20,967
Computer sciences	14,080	15,302	16,025	14,816	13,277	12,045	12,062	12,206	12,017	12,545	13,053	12,807	12,607
Mathematics/statistics	5,780	6,270	6,886	7,289	7,497	7,437	7,693	7,781	7,678	7,751	7,979	8,127	8,360
Medical/other health sciences	60,723	61,033	64,728	70,042	75,884	80,627	86,719	81,376	80,217	79,182	65,371	56,690	48,818
Medical sciences	13,067	13,876	15,796	17,523	18,256	19,543	21,060	20,894	20,281	20,834	20,856	22,243	22,871
Other health sciences <sup>c</sup>	47,656	47,157	48,932	52,519	57,628	61,084	65,659	60,482	59,936	58,348	44,515	34,447	25,947
Physical sciences	9,115	9,336	10,066	10,778	11,300	11,726	12,005	12,253	12,109	12,333	12,691	12,826	13,112
Astronomy	267	265	302	345	355	394	407	414	414	410	431	423	423
Chemistry	6,756	6,855	7,325	7,839	8,232	8,423	8,644	8,821	8,770	8,983	9,222	9,261	9,441
Physics	1,910	2,042	2,201	2,366	2,501	2,669	2,710	2,776	2,768	2,758	2,846	2,899	2,979
Other physical sciences	182	174	238	228	212	240	244	242	157	182	192	243	269
Social/behavioral sciences	80,110	81,970	85,362	89,480	92,040	96,587	98,730	102,035	100,569	100,315	100,285	98,897	100,486
Psychology <sup>c</sup>	36,872	37,307	37,717	38,779	40,156	43,319	43,703	45,594	45,116	44,615	42,536	40,238	40,921
Social sciences	43,238	44,663	47,645	50,701	51,884	53,268	55,027	56,441	55,453	55,700	57,749	58,659	59,565
Anthropology	4,685	4,562	4,617	4,870	4,973	4,940	5,215	5,151	5,169	5,314	5,337	5,490	5,357
Economics	4,554	4,830	5,112	5,408	5,339	5,129	5,252	5,462	5,548	5,729	6,069	6,141	6,452
History of science	219	244	301	312	414	440	428	482	449	496	409	316	266
Linguistics	1,744	1,793	1,891	2,005	1,927	2,055	1,986	1,993	1,876	2,002	1,940	1,888	1,940
Political science/public administration	15,927	16,501	18,619	19,842	20,820	21,882	22,239	22,146	21,820	21,696	23,379	23,970	26,163

## Appendix table 2-24

**S&E graduate enrollment, by sex and field: 2000–11**

Sex/field	2000	2001	2002	2003	2004	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
Sociology	6,043	6,232	6,221	6,407	6,341	6,338	6,340	6,787	6,618	6,864	6,530	6,544	6,389
Other social sciences	10,066	10,501	10,884	11,857	12,070	12,484	13,567	14,420	13,973	13,599	14,085	14,310	12,998
Multidisciplinary/interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	NA	2,560	3,234	3,809	4,493	3,431

NA = not available.

<sup>a</sup> In 2007, the survey was redesigned to improve reporting, and five fields were added or reclassified to improve reporting. "2007new" shows data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Because of methodological changes, counts should be used with caution for trend analysis. See <http://www.nsf.gov/statistics/nsf10307/> for more detail. S&E excludes fields that were collected in this survey starting in 2007 (architecture, communication, and family and consumer sciences/human sciences) that are not included in other tables in this report from other data sources.

<sup>b</sup> Starting in 2007, includes neuroscience, which had been included in "neurology" under medical sciences in prior years.

<sup>c</sup> Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and other health sciences (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2012) of the 2011 Survey of Graduate Students and Postdoctorates in Science and Engineering.

*Science and Engineering Indicators 2014*