

Appendix table 2-27

S&E graduate enrollment, by citizenship, field, and race or ethnicity: 2000–11

Citizenship, field, and race or ethnicity	2000	2001	2002	2003	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
All citizenships, races, and ethnicities													
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 ^b	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 ^c	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 ^c	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 2-27

S&E graduate enrollment, by citizenship, field, and race or ethnicity: 2000–11

Citizenship, field, and race or ethnicity	2000	2001	2002	2003	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
U.S. citizen or permanent resident													
S&E	364,894	368,737	387,416	412,105	423,218	434,730	446,625	450,251	447,903	448,347	442,779	440,839	434,718
Engineering	56,651	56,890	61,277	67,310	66,379	66,551	67,698	70,357	67,592	69,411	73,031	76,747	76,970
Aerospace	1,894	1,805	1,999	2,361	2,401	2,528	2,998	3,090	3,090	3,311	3,605	3,893	4,045
Chemical	3,711	3,398	3,686	3,736	3,753	3,675	3,685	3,647	3,744	3,821	4,022	4,272	4,402
Civil	10,306	10,072	10,553	11,458	11,436	11,415	11,421	13,051	9,972	10,477	11,750	12,482	12,221
Electrical	15,315	15,534	16,579	18,118	16,878	16,662	16,166	15,759	16,024	16,042	15,936	16,109	15,985
Industrial	7,574	7,588	8,290	8,820	8,763	9,071	9,249	9,020	9,090	9,464	9,511	9,028	8,552
Materials	2,265	2,385	2,482	2,546	2,501	2,518	2,690	2,739	2,719	2,796	2,949	3,197	3,315
Mechanical	8,052	8,141	8,562	9,602	9,724	9,719	10,205	10,495	10,481	11,075	11,893	12,986	12,635
Other	7,534	7,967	9,126	10,669	10,923	10,963	11,284	12,556	12,472	12,425	13,365	14,780	15,815
Science	308,243	311,847	326,139	344,795	356,839	368,179	378,927	379,894	380,311	378,936	369,748	364,092	357,748
Natural sciences	193,036	195,250	205,691	218,875	226,950	232,603	240,588	236,533	235,170	234,181	222,537	217,406	209,614
Agricultural sciences	9,612	9,722	10,085	10,601	10,750	10,464	10,341	10,487	10,631	11,047	11,938	12,416	12,702
Biological sciences ^b	44,521	45,196	47,253	49,865	50,734	52,012	53,034	54,784	56,558	56,746	57,904	59,829	61,374
Earth, atmospheric, and ocean sciences	11,249	11,059	11,463	11,837	12,337	12,058	12,153	11,952	11,488	11,612	12,082	12,729	12,730
Atmospheric sciences	659	639	721	861	813	849	821	854	891	1,080	1,056	1,133	1,180
Earth sciences	5,294	5,189	5,333	5,456	5,906	5,785	5,749	5,624	5,633	5,686	6,036	6,607	6,588
Oceanography	2,142	2,071	2,152	2,206	2,304	2,270	2,267	2,226	2,184	2,164	2,170	2,122	2,211
Other geosciences	3,154	3,160	3,257	3,314	3,314	3,154	3,316	3,248	2,780	2,682	2,820	2,867	2,751
Mathematics/computer sciences	34,681	36,309	39,342	41,477	40,785	40,177	39,894	39,565	38,873	38,551	40,236	40,691	40,307
Computer sciences	25,088	26,142	28,203	29,420	28,261	27,409	26,675	25,957	25,441	25,316	26,325	26,170	25,656
Mathematics/statistics	9,593	10,167	11,139	12,057	12,524	12,768	13,219	13,608	13,432	13,235	13,911	14,521	14,651
Medical/other health sciences	74,243	74,129	78,297	84,924	91,196	96,217	103,022	97,109	95,203	93,669	77,306	68,089	58,363
Medical sciences	19,090	19,784	21,773	24,212	24,789	26,163	27,936	27,400	26,297	26,354	26,218	27,976	28,482
Other health sciences ^c	55,153	54,345	56,524	60,712	66,407	70,054	75,086	69,709	68,906	67,315	51,088	40,113	29,881
Physical sciences	18,730	18,835	19,251	20,171	21,148	21,675	22,144	22,636	22,417	22,556	23,071	23,652	24,138
Astronomy	617	633	687	747	749	828	845	852	851	873	969	932	939
Chemistry	11,883	11,797	11,792	12,168	12,637	12,833	13,050	13,275	13,201	13,155	13,515	13,766	14,057
Physics	5,757	5,991	6,259	6,744	7,270	7,473	7,722	7,940	7,918	7,988	8,078	8,460	8,656
Other physical sciences	473	414	513	512	492	541	527	569	447	540	509	494	486
Social/behavioral sciences	115,207	116,597	120,448	125,920	129,889	135,576	138,339	143,361	141,353	140,102	141,683	139,979	142,639
Psychology ^c	48,203	47,933	48,295	49,055	50,932	54,228	54,802	57,171	56,574	55,912	53,246	50,332	51,398
Social sciences	67,004	68,664	72,153	76,865	78,957	81,348	83,537	86,190	84,779	84,190	88,437	89,647	91,241
Anthropology	6,797	6,722	6,634	6,967	6,966	6,892	7,225	7,125	7,155	7,352	7,410	7,538	7,424
Economics	6,006	6,233	6,530	6,920	6,938	6,590	6,810	6,951	7,068	7,331	8,194	8,307	8,502
History of science	463	501	595	668	925	886	881	1,024	978	1,081	913	630	511
Linguistics	1,714	1,782	1,893	2,065	1,936	2,257	2,124	2,181	2,028	2,150	2,229	2,182	2,232
Political science/public administration	26,972	27,582	30,280	32,003	34,054	35,895	36,477	36,668	36,263	35,621	38,328	39,520	43,561
Sociology	8,065	8,228	8,275	8,485	8,356	8,481	8,493	9,250	9,046	9,371	9,073	8,983	8,751
Other social sciences	16,987	17,616	17,946	19,757	19,782	20,347	21,527	22,991	22,241	21,284	22,290	22,487	20,260
Multidisciplinary/interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	NA	3,788	4,653	5,528	6,707	5,495

Appendix table 2-27

S&E graduate enrollment, by citizenship, field, and race or ethnicity: 2000–11

Citizenship, field, and race or ethnicity	2000	2001	2002	2003	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
White													
S&E	261,112	260,371	270,025	283,241	288,574	292,276	299,275	298,917	297,001	296,445	290,813	287,669	282,866
Engineering	39,083	38,459	40,559	43,469	43,235	42,868	43,293	44,751	42,599	44,169	46,428	48,942	49,123
Aerospace	1,451	1,434	1,512	1,747	1,791	1,844	1,969	2,152	2,152	2,244	2,485	2,702	2,820
Chemical	2,627	2,417	2,565	2,554	2,666	2,561	2,556	2,520	2,601	2,672	2,809	2,872	2,955
Civil	7,759	7,492	7,707	8,333	8,270	8,139	7,971	9,115	6,807	7,265	7,884	8,245	8,118
Electrical	8,982	8,876	9,121	9,709	9,444	9,150	8,875	8,789	8,933	8,734	8,908	9,035	8,974
Industrial	5,329	5,255	5,668	5,680	5,484	5,658	5,586	5,300	5,293	5,543	5,305	5,011	4,893
Materials	1,751	1,839	1,882	1,909	1,815	1,859	1,926	1,924	1,900	1,988	2,119	2,252	2,290
Mechanical	6,005	5,932	6,254	6,883	6,998	6,898	7,337	7,232	7,213	7,591	8,334	9,135	8,779
Other	5,179	5,214	5,850	6,654	6,767	6,759	7,073	7,719	7,700	8,132	8,584	9,690	10,294
Science	222,029	221,912	229,466	239,772	245,339	249,408	255,982	254,166	254,402	252,276	244,385	238,727	233,743
Natural sciences	142,528	141,957	148,248	155,919	160,578	163,685	168,414	163,760	162,868	161,787	152,089	147,426	141,905
Agricultural sciences	8,152	8,147	8,486	8,799	8,936	8,662	8,384	8,452	8,572	8,725	9,421	9,867	10,142
Biological sciences ^b	33,255	33,193	34,568	35,809	36,053	36,627	37,163	37,605	38,575	38,738	38,790	40,036	40,970
Earth, atmospheric, and ocean sciences	9,812	9,573	9,799	9,963	10,342	10,126	10,116	9,783	9,443	9,354	9,651	10,141	10,145
Atmospheric sciences	557	547	623	713	663	697	690	715	743	860	851	902	932
Earth sciences	4,720	4,603	4,639	4,691	5,111	5,010	4,896	4,722	4,732	4,687	4,893	5,328	5,356
Oceanography	1,872	1,769	1,845	1,871	1,933	1,896	1,898	1,834	1,795	1,779	1,743	1,733	1,809
Other geosciences	2,663	2,654	2,692	2,688	2,635	2,523	2,632	2,512	2,173	2,028	2,164	2,178	2,048
Mathematics/computer sciences	21,423	22,443	23,885	25,674	25,797	25,471	25,144	24,418	24,030	24,084	25,060	25,326	25,448
Computer sciences	14,468	15,057	15,962	17,260	16,938	16,555	15,943	15,089	14,811	14,930	15,533	15,604	15,417
Mathematics/statistics	6,955	7,386	7,923	8,414	8,859	8,916	9,201	9,329	9,219	9,154	9,527	9,722	10,031
Medical/other health sciences	55,543	54,353	56,890	60,567	63,724	66,500	71,282	66,874	65,797	64,366	52,234	44,737	37,544
Medical sciences	12,017	12,492	14,307	15,425	15,560	15,507	16,310	16,516	16,110	15,977	15,322	16,023	15,909
Other health sciences ^c	43,526	41,861	42,583	45,142	48,164	50,993	54,972	50,358	49,687	48,389	36,912	28,714	21,635
Physical sciences	14,343	14,248	14,620	15,107	15,726	16,299	16,325	16,628	16,451	16,520	16,933	17,319	17,656
Astronomy	523	527	570	610	631	677	683	676	676	703	764	731	742
Chemistry	9,028	8,977	8,926	8,955	9,171	9,435	9,314	9,460	9,400	9,404	9,650	9,771	9,982
Physics	4,514	4,485	4,789	5,209	5,600	5,765	5,937	6,097	6,074	6,043	6,134	6,429	6,569
Other physical sciences	278	259	335	333	324	422	391	395	301	370	385	388	363
Social/behavioral sciences	79,501	79,955	81,218	83,853	84,761	85,723	87,568	90,406	89,077	87,530	88,874	87,102	88,259
Psychology ^c	33,801	33,569	33,464	33,552	33,580	34,359	35,045	36,976	36,519	35,530	34,342	32,043	32,350
Social sciences	45,700	46,386	47,754	50,301	51,181	51,364	52,523	53,430	52,558	52,000	54,532	55,059	55,909
Anthropology	5,311	5,190	5,153	5,316	5,258	5,097	5,287	5,184	5,208	5,312	5,361	5,379	5,391
Economics	4,314	4,392	4,481	4,778	4,819	4,625	4,679	4,771	4,851	4,983	5,463	5,607	5,713
History of science	386	414	426	514	700	679	673	831	808	803	704	498	414
Linguistics	1,237	1,293	1,335	1,418	1,349	1,540	1,503	1,519	1,413	1,517	1,504	1,458	1,492
Political science/public administration	17,401	17,635	18,785	19,525	20,468	20,966	21,242	21,450	21,240	20,594	22,424	22,933	25,368
Sociology	5,445	5,590	5,549	5,602	5,535	5,560	5,597	5,736	5,607	5,818	5,651	5,464	5,284
Other social sciences	11,606	11,872	12,025	13,148	13,052	12,897	13,542	13,939	13,431	12,973	13,425	13,720	12,247
Multidisciplinary/interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	NA	2,457	2,959	3,422	4,199	3,579

Appendix table 2-27

S&E graduate enrollment, by citizenship, field, and race or ethnicity: 2000–11

Citizenship, field, and race or ethnicity	2000	2001	2002	2003	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
Asian or Pacific Islander													
S&E	30,190	31,945	34,918	38,155	37,735	37,764	37,863	38,396	38,221	37,256	37,850	37,737	38,132
Engineering	7,214	7,926	9,299	10,687	9,712	9,730	9,179	9,515	9,410	9,405	9,602	10,075	10,147
Aerospace	206	138	186	207	212	251	312	346	346	366	377	419	437
Chemical	486	474	551	540	453	493	496	475	485	494	536	604	649
Civil	744	771	855	1,024	997	1,006	957	1,054	874	949	1,136	1,286	1,233
Electrical	3,119	3,454	4,079	4,606	3,823	3,762	3,414	3,099	3,164	3,127	3,041	2,985	2,899
Industrial	628	667	850	998	929	1,026	1,010	1,032	1,068	1,069	977	928	804
Materials	246	244	298	316	346	315	337	341	338	359	362	418	430
Mechanical	759	903	870	994	973	962	940	1,242	1,243	1,280	1,225	1,352	1,385
Other	1,026	1,275	1,610	2,002	1,979	1,915	1,713	1,926	1,892	1,761	1,948	2,083	2,310
Science	22,976	24,019	25,619	27,468	28,023	28,034	28,684	28,881	28,811	27,851	28,248	27,662	27,985
Natural sciences	17,843	18,625	19,708	20,906	21,202	20,876	21,508	21,035	20,863	20,033	20,225	19,663	19,790
Agricultural sciences	250	262	286	316	329	290	338	333	340	384	399	377	391
Biological sciences ^c	4,246	4,701	4,826	5,158	5,277	5,420	5,709	6,016	6,254	5,985	6,386	6,596	7,119
Earth, atmospheric, and ocean sciences	351	341	346	355	428	400	389	421	388	387	415	421	441
Atmospheric sciences	41	26	22	46	53	44	35	38	41	40	41	53	50
Earth sciences	132	139	149	126	149	136	141	155	153	159	185	178	188
Oceanography	64	51	64	48	69	65	57	67	67	58	46	47	63
Other geosciences	114	125	111	135	157	155	156	161	127	130	143	143	140
Mathematics/computer sciences	6,280	6,412	7,137	7,131	6,400	5,945	5,635	5,256	5,119	4,978	5,373	5,137	5,140
Computer sciences	5,332	5,427	5,953	5,767	5,102	4,573	4,222	3,838	3,732	3,618	3,916	3,602	3,520
Mathematics/statistics	948	985	1,184	1,364	1,298	1,372	1,413	1,418	1,387	1,360	1,457	1,535	1,620
Medical/other health sciences	5,192	5,451	5,689	6,369	7,090	7,190	7,684	7,117	6,885	6,528	5,781	5,309	4,679
Medical sciences	2,437	2,495	2,506	2,881	3,111	3,364	3,624	3,319	3,171	2,747	2,898	3,029	3,099
Other health sciences ^c	2,755	2,956	3,183	3,488	3,979	3,826	4,060	3,798	3,714	3,781	2,883	2,280	1,580
Physical sciences	1,524	1,458	1,424	1,577	1,678	1,631	1,753	1,892	1,877	1,771	1,871	1,823	2,020
Astronomy	33	36	44	53	38	46	54	57	56	50	66	60	65
Chemistry	1,079	983	950	1,061	1,123	1,093	1,173	1,271	1,267	1,143	1,180	1,201	1,336
Physics	393	422	405	431	492	470	500	497	498	528	565	534	580
Other physical sciences	19	17	25	32	25	22	26	67	56	50	60	28	39
Social/behavioral sciences	5,133	5,394	5,911	6,562	6,821	7,158	7,176	7,846	7,724	7,562	7,721	7,648	7,900
Psychology ^c	2,063	2,176	2,186	2,374	2,443	2,551	2,612	2,896	2,869	2,810	2,659	2,551	2,549
Social sciences	3,070	3,218	3,725	4,188	4,378	4,607	4,564	4,950	4,855	4,752	5,062	5,097	5,351
Anthropology	260	253	252	283	294	308	311	322	322	310	337	315	301
Economics	506	524	623	694	663	636	652	704	710	652	759	798	804
History of science	20	21	28	29	48	36	35	34	29	32	21	18	13
Linguistics	106	154	183	215	176	247	177	196	187	201	210	194	209
Political science/public administration	1,206	1,225	1,489	1,622	1,784	1,950	1,970	2,076	2,042	2,069	2,190	2,251	2,503
Sociology	367	374	387	456	402	397	433	508	489	500	469	457	480
Other social sciences	605	667	763	889	1,011	1,033	986	1,110	1,076	988	1,076	1,064	1,041
Multidisciplinary/interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	NA	224	256	302	351	295

Appendix table 2-27

S&E graduate enrollment, by citizenship, field, and race or ethnicity: 2000–11

Citizenship, field, and race or ethnicity	2000	2001	2002	2003	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
Black or African American													
S&E	25,928	27,071	28,715	31,242	32,496	33,547	34,866	34,934	34,866	35,724	35,823	36,542	37,069
Engineering	2,977	2,915	3,074	3,212	3,399	3,470	3,572	3,684	3,556	3,704	3,872	3,903	3,937
Aerospace	57	45	51	59	68	73	79	81	81	103	108	92	92
Chemical	168	167	160	173	169	146	149	149	155	150	172	164	169
Civil	448	431	453	428	453	456	508	603	461	475	528	594	545
Electrical	830	812	846	812	850	843	828	842	861	864	900	937	951
Industrial	557	591	616	685	714	764	763	741	734	849	826	708	666
Materials	94	107	112	110	105	102	129	131	127	126	112	130	127
Mechanical	396	354	358	382	369	411	419	409	408	425	431	456	463
Other	427	408	478	563	671	675	697	728	729	712	795	822	924
Science	22,951	24,156	25,641	28,030	29,097	30,077	31,294	31,250	31,310	32,020	31,951	32,639	33,132
Natural sciences	10,849	11,695	12,584	14,100	14,917	15,456	16,483	15,942	15,895	16,178	15,553	15,630	15,145
Agricultural sciences	292	327	375	460	394	417	453	431	434	470	406	482	499
Biological sciences ^b	2,241	2,351	2,479	2,757	2,902	2,991	3,071	3,303	3,381	3,461	3,663	3,739	3,723
Earth, atmospheric, and ocean sciences	220	227	266	270	261	262	263	279	272	301	311	328	321
Atmospheric sciences	18	19	25	32	36	30	26	32	32	48	39	51	56
Earth sciences	56	57	64	75	84	82	71	95	93	97	113	132	131
Oceanography	28	31	36	35	30	37	41	38	38	38	41	29	28
Other geosciences	118	120	141	128	111	113	125	114	109	118	118	116	106
Mathematics/computer sciences	2,084	2,299	2,524	2,606	2,495	2,481	2,485	2,576	2,542	2,570	2,818	2,968	2,894
Computer sciences	1,512	1,709	1,898	1,951	1,799	1,761	1,774	1,865	1,834	1,889	2,088	2,228	2,134
Mathematics/statistics	572	590	626	655	696	720	711	711	708	681	730	740	760
Medical/other health sciences	5,094	5,616	6,047	7,068	7,872	8,299	9,202	8,369	8,286	8,367	7,376	7,105	6,705
Medical sciences	1,780	1,829	1,955	2,402	2,398	2,601	3,014	3,005	3,056	3,427	3,565	4,073	4,622
Other health sciences ^c	3,314	3,787	4,092	4,666	5,474	5,698	6,188	5,364	5,230	4,940	3,811	3,032	2,083
Physical sciences	918	875	893	939	993	1,006	1,009	984	980	1,009	979	1,008	1,003
Astronomy	9	12	10	9	10	10	11	8	8	7	6	7	6
Chemistry	650	631	636	663	711	692	732	735	733	742	746	786	757
Physics	235	211	220	236	248	272	229	210	210	215	206	195	217
Other physical sciences	24	21	27	31	24	32	37	31	29	45	21	20	23
Social/behavioral sciences	12,102	12,461	13,057	13,930	14,180	14,621	14,811	15,308	15,095	15,454	15,918	16,448	17,511
Psychology ^c	4,214	4,343	4,487	4,692	4,990	5,238	5,089	5,140	5,100	5,358	5,393	5,442	5,806
Social sciences	7,888	8,118	8,570	9,238	9,190	9,383	9,722	10,168	9,995	10,096	10,525	11,006	11,705
Anthropology	270	274	248	276	272	277	278	268	268	287	268	248	241
Economics	397	390	405	441	434	384	422	377	378	401	500	492	511
History of science	14	16	24	25	30	42	31	50	49	56	51	43	20
Linguistics	44	47	44	49	47	64	46	43	37	45	59	61	60
Political science/public administration	4,073	4,264	4,632	4,849	4,917	4,932	5,063	4,942	4,885	4,968	5,243	5,759	6,852
Sociology	1,098	1,132	1,132	1,201	1,164	1,194	1,140	1,278	1,257	1,300	1,266	1,245	1,241
Other social sciences	1,992	1,995	2,085	2,397	2,326	2,490	2,742	3,210	3,121	3,039	3,138	3,158	2,780
Multidisciplinary/interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	NA	320	388	480	561	476

Appendix table 2-27

S&E graduate enrollment, by citizenship, field, and race or ethnicity: 2000–11

Citizenship, field, and race or ethnicity	2000	2001	2002	2003	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
Hispanic ^d													
S&E	21,327	22,329	24,282	26,684	28,031	29,309	30,510	31,110	31,019	30,691	31,281	32,187	33,824
Engineering	3,018	3,183	3,461	3,979	4,164	4,090	4,381	4,517	4,355	4,331	4,764	5,220	5,670
Aerospace	80	71	92	119	118	116	136	145	145	159	195	240	290
Chemical	182	180	206	249	249	240	277	261	261	238	225	279	284
Civil	776	747	778	846	898	896	967	1,068	892	796	915	1,091	1,136
Electrical	717	825	941	1,094	1,097	1,090	1,044	979	996	1,007	1,072	1,157	1,196
Industrial	439	469	477	562	629	579	664	661	664	703	717	677	716
Materials	84	80	79	98	99	106	98	116	117	118	145	170	213
Mechanical	366	407	450	537	566	575	621	653	656	685	749	827	948
Other	374	404	438	474	508	488	574	634	624	625	746	779	887
Science	18,309	19,146	20,821	22,705	23,867	25,219	26,129	26,593	26,664	26,360	26,517	26,967	28,154
Natural sciences	9,269	9,787	10,579	12,046	12,874	13,156	13,892	13,904	13,834	13,489	13,683	13,954	14,135
Agricultural sciences	440	425	406	490	524	506	535	576	604	611	749	770	809
Biological sciences ^b	2,183	2,338	2,585	2,830	2,993	3,146	3,289	3,470	3,555	3,598	3,837	4,136	4,493
Earth, atmospheric, and ocean sciences	355	397	413	484	538	508	540	555	522	525	585	669	698
Atmospheric sciences	12	15	16	21	27	36	30	27	30	42	46	59	67
Earth sciences	136	155	163	187	217	206	217	217	218	229	270	324	337
Oceanography	113	137	131	158	161	150	151	162	162	148	141	140	137
Other geosciences	94	90	103	118	133	116	142	149	112	106	128	146	157
Mathematics/computer sciences	1,323	1,376	1,546	1,705	1,767	1,832	1,902	1,955	1,928	1,937	2,159	2,249	2,510
Computer sciences	863	894	1,004	1,101	1,142	1,199	1,207	1,191	1,170	1,227	1,371	1,455	1,618
Mathematics/statistics	460	482	542	604	625	633	695	764	758	710	788	794	892
Medical/other health sciences	4,124	4,355	4,648	5,443	5,819	5,922	6,370	6,078	5,961	5,550	5,071	4,766	4,220
Medical sciences	1,533	1,734	1,669	1,874	1,999	1,943	2,093	2,022	1,712	1,885	2,001	2,149	2,166
Other health sciences ^c	2,591	2,621	2,979	3,569	3,820	3,979	4,277	4,056	4,249	3,665	3,070	2,617	2,054
Physical sciences	844	896	981	1,094	1,233	1,242	1,256	1,270	1,264	1,268	1,282	1,364	1,405
Astronomy	17	17	17	25	23	27	27	32	32	33	37	38	37
Chemistry	602	629	668	750	838	823	823	821	819	822	834	873	878
Physics	202	239	274	297	343	358	374	385	385	376	397	432	463
Other physical sciences	23	11	22	22	29	34	32	32	28	37	14	21	27
Social/behavioral sciences	9,040	9,359	10,242	10,659	10,993	12,063	12,237	12,689	12,577	12,511	12,433	12,396	13,558
Psychology ^c	4,145	4,309	4,655	4,677	4,791	5,101	5,222	5,526	5,506	5,543	5,003	4,859	5,396
Social sciences	4,895	5,050	5,587	5,982	6,202	6,962	7,015	7,163	7,071	6,968	7,430	7,537	8,162
Anthropology	368	383	409	436	453	472	491	515	519	527	535	544	549
Economics	277	346	362	411	409	390	406	416	421	425	501	548	555
History of science	17	18	55	38	56	60	64	33	33	80	72	26	20
Linguistics	142	126	140	136	148	163	125	151	143	123	148	149	171
Political science/public administration	2,303	2,223	2,587	2,749	2,960	3,298	3,235	3,244	3,216	3,075	3,362	3,344	3,878
Sociology	634	636	686	709	693	718	721	846	816	877	857	957	972
Other social sciences	1,154	1,318	1,348	1,503	1,483	1,861	1,973	1,958	1,923	1,861	1,955	1,969	2,017
Multidisciplinary/interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	NA	253	360	401	617	461

Appendix table 2-27

S&E graduate enrollment, by citizenship, field, and race or ethnicity: 2000–11

Citizenship, field, and race or ethnicity	2000	2001	2002	2003	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
American Indian or Alaska Native													
S&E	2,021	2,136	2,239	2,399	2,354	2,485	2,689	2,777	2,792	3,172	2,935	2,759	2,640
Engineering	208	227	244	304	273	273	290	286	275	304	312	293	300
Aerospace	8	8	11	15	16	13	10	13	13	18	16	11	15
Chemical	20	13	21	19	27	24	20	16	16	15	14	18	17
Civil	39	43	58	65	51	52	62	70	58	50	59	55	63
Electrical	37	45	39	63	54	54	46	47	48	61	54	48	51
Industrial	41	43	34	52	48	51	55	46	47	51	61	43	39
Materials	5	8	11	8	6	5	8	9	9	13	11	12	10
Mechanical	27	32	32	42	24	28	32	33	33	37	43	46	44
Other	31	35	38	40	47	46	57	52	51	59	54	60	61
Science	1,813	1,909	1,995	2,095	2,081	2,212	2,399	2,491	2,517	2,868	2,623	2,466	2,340
Natural sciences	905	992	1,062	1,104	1,111	1,161	1,323	1,332	1,319	1,517	1,338	1,281	1,161
Agricultural sciences	56	58	76	77	82	76	85	87	88	130	134	146	97
Biological sciences ^b	189	205	210	236	248	277	310	300	309	346	342	371	347
Earth, atmospheric, and ocean sciences	61	70	81	63	67	61	69	88	80	74	75	102	109
Atmospheric sciences	3	4	4	5	4	3	1	3	3	5	7	5	4
Earth sciences	27	32	36	26	33	29	36	45	45	40	43	69	79
Oceanography	10	12	11	8	11	11	11	14	14	8	12	10	9
Other geosciences	21	22	30	24	19	18	21	26	18	21	13	18	17
Mathematics/computer sciences	105	125	107	129	130	138	164	143	139	188	175	176	155
Computer sciences	80	87	83	104	91	100	105	96	94	130	128	125	101
Mathematics/statistics	25	38	24	25	39	38	59	47	45	58	47	51	54
Medical/other health sciences	419	453	505	520	506	527	577	609	600	668	493	384	349
Medical sciences	113	124	138	167	134	133	148	191	187	223	179	175	190
Other health sciences ^c	306	329	367	353	372	394	429	418	413	445	314	209	159
Physical sciences	75	81	83	79	78	82	118	105	103	111	119	102	104
Astronomy	1	0	2	3	3	5	8	9	9	9	7	7	9
Chemistry	61	62	58	51	54	53	78	70	70	63	74	57	61
Physics	12	19	22	24	18	20	26	22	22	30	31	28	29
Other physical sciences	1	0	1	1	3	4	6	4	2	9	7	10	5
Social/behavioral sciences	908	917	933	991	970	1,051	1,076	1,159	1,146	1,296	1,231	1,135	1,136
Psychology ^c	360	334	320	324	323	332	344	404	402	398	384	353	356
Social sciences	548	583	613	667	647	719	732	755	744	898	847	782	780
Anthropology	109	102	89	99	106	123	145	126	127	144	134	127	126
Economics	24	25	32	38	56	42	33	21	21	64	38	29	40
History of science	2	2	2	5	7	5	8	4	2	7	5	2	4
Linguistics	13	13	12	16	17	17	21	31	28	36	40	29	27
Political science/public administration	175	192	217	241	212	246	241	251	251	295	288	257	271
Sociology	75	82	82	83	71	68	65	71	70	90	80	64	72
Other social sciences	150	167	179	185	178	218	219	251	245	262	262	274	240
Multidisciplinary/interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	NA	52	55	54	50	43

Appendix table 2-27

S&E graduate enrollment, by citizenship, field, and race or ethnicity: 2000–11

Citizenship, field, and race or ethnicity	2000	2001	2002	2003	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
Other/unknown race or ethnicity													
S&E	24,316	24,885	27,237	30,384	34,028	39,349	41,422	44,117	44,004	45,059	44,077	43,945	40,187
Engineering	4,151	4,180	4,640	5,659	5,596	6,120	6,983	7,604	7,397	7,498	8,053	8,314	7,793
Aerospace	92	109	147	214	196	231	492	353	353	421	424	429	391
Chemical	228	147	183	201	189	211	187	226	226	252	266	335	328
Civil	540	588	702	762	767	866	956	1,141	880	942	1,228	1,211	1,126
Electrical	1,630	1,522	1,553	1,834	1,610	1,763	1,959	2,003	2,022	2,249	1,961	1,947	1,914
Industrial	580	563	645	843	959	993	1,171	1,240	1,284	1,249	1,625	1,661	1,434
Materials	85	107	100	105	130	131	192	218	228	192	200	215	245
Mechanical	499	513	598	764	794	845	856	926	928	1,057	1,111	1,170	1,016
Other	497	631	712	936	951	1,080	1,170	1,497	1,476	1,136	1,238	1,346	1,339
Science	20,165	20,705	22,597	24,725	28,432	33,229	34,439	36,513	36,607	37,561	36,024	35,631	32,394
Natural sciences	11,642	12,194	13,510	14,800	16,268	18,269	18,968	20,560	20,391	21,177	19,649	19,452	17,478
Agricultural sciences	422	503	456	459	485	513	546	608	593	727	829	774	764
Biological sciences ^b	2,407	2,408	2,585	3,075	3,261	3,551	3,492	4,090	4,484	4,618	4,886	4,951	4,722
Earth, atmospheric, and ocean sciences	450	451	558	702	701	701	776	826	783	971	1,045	1,068	1,016
Atmospheric sciences	28	28	31	44	30	39	39	39	42	85	72	63	71
Earth sciences	223	203	282	351	312	322	388	390	392	474	532	576	497
Oceanography	55	71	65	86	100	111	109	111	108	133	187	163	165
Other geosciences	144	149	180	221	259	229	240	286	241	279	254	266	283
Mathematics/computer sciences	3,466	3,654	4,143	4,232	4,196	4,310	4,564	5,217	5,115	4,794	4,651	4,835	4,160
Computer sciences	2,833	2,968	3,303	3,237	3,189	3,221	3,424	3,878	3,800	3,522	3,289	3,156	2,866
Mathematics/statistics	633	686	840	995	1,007	1,089	1,140	1,339	1,315	1,272	1,362	1,679	1,294
Medical/other health sciences	3,871	3,901	4,518	4,957	6,185	7,779	7,907	8,062	7,674	8,190	6,351	5,788	4,866
Medical sciences	1,210	1,110	1,198	1,463	1,587	2,615	2,747	2,347	2,061	2,095	2,253	2,527	2,496
Other health sciences ^c	2,661	2,791	3,320	3,494	4,598	5,164	5,160	5,715	5,613	6,095	4,098	3,261	2,370
Physical sciences	1,026	1,277	1,250	1,375	1,440	1,415	1,683	1,757	1,742	1,877	1,887	2,036	1,950
Astronomy	34	41	44	47	44	63	62	70	70	71	89	89	80
Chemistry	463	515	554	688	740	737	930	918	912	981	1,031	1,078	1,043
Physics	401	615	549	547	569	588	656	729	729	796	745	842	798
Other physical sciences	128	106	103	93	87	27	35	40	31	29	22	27	29
Social/behavioral sciences	8,523	8,511	9,087	9,925	12,164	14,960	15,471	15,953	15,734	15,749	15,506	15,250	14,275
Psychology ^c	3,620	3,202	3,183	3,436	4,805	6,647	6,490	6,229	6,178	6,273	5,465	5,084	4,941
Social sciences	4,903	5,309	5,904	6,489	7,359	8,313	8,981	9,724	9,556	9,476	10,041	10,166	9,334
Anthropology	479	520	483	557	583	615	713	710	711	772	775	925	816
Economics	488	556	627	558	557	513	618	662	687	806	933	833	879
History of science	24	30	60	57	84	64	70	72	57	103	60	43	40
Linguistics	172	149	179	231	199	226	252	241	220	228	268	291	273
Political science/public administration	1,814	2,043	2,570	3,017	3,713	4,503	4,726	4,705	4,629	4,620	4,821	4,976	4,689
Sociology	446	414	439	434	491	544	537	811	807	786	750	796	702
Other social sciences	1,480	1,597	1,546	1,635	1,732	1,848	2,065	2,523	2,445	2,161	2,434	2,302	1,935
Multidisciplinary/interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	NA	482	635	869	929	641

Appendix table 2-27

S&E graduate enrollment, by citizenship, field, and race or ethnicity: 2000–11

Citizenship, field, and race or ethnicity	2000	2001	2002	2003	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
Temporary resident													
S&E	128,417	140,870	152,988	155,016	151,245	147,496	151,018	157,572	156,912	165,244	168,850	171,002	173,453
Engineering	47,461	52,603	58,391	60,067	57,187	54,014	55,343	59,898	59,483	62,540	64,842	65,699	66,420
Aerospace	1,513	1,646	1,686	1,687	1,688	1,642	1,484	1,526	1,526	1,591	1,661	1,647	1,646
Chemical	3,345	3,515	3,728	3,780	3,699	3,498	3,576	3,736	3,840	4,071	4,166	4,396	4,426
Civil	6,145	6,593	7,160	7,432	7,125	6,699	6,381	6,816	6,099	6,454	6,888	7,077	7,375
Electrical	18,296	20,566	23,369	23,645	22,117	20,788	22,099	24,448	24,564	25,122	25,282	25,227	25,595
Industrial	4,545	5,352	5,743	5,493	5,089	4,579	4,580	5,270	5,384	6,228	6,314	6,177	5,942
Materials	2,112	2,336	2,510	2,585	2,558	2,642	2,578	2,626	2,595	2,743	2,914	3,077	3,334
Mechanical	7,183	7,711	8,577	8,791	8,128	7,654	7,714	7,871	7,866	8,510	9,350	9,523	9,248
Other	4,322	4,884	5,618	6,654	6,783	6,512	6,931	7,605	7,609	7,821	8,267	8,575	8,854
Science	80,956	88,267	94,597	94,949	94,058	93,482	95,675	97,674	97,429	102,704	104,008	105,303	107,033
Natural sciences	62,370	68,728	73,678	73,578	72,489	72,349	74,014	75,880	75,319	79,525	80,658	81,406	82,483
Agricultural sciences	2,411	2,513	2,613	2,596	2,695	2,659	2,675	2,735	2,897	3,106	3,262	3,240	3,427
Biological sciences ^b	11,761	12,443	13,835	14,836	15,831	16,467	16,907	16,879	16,958	17,932	17,756	17,897	18,166
Earth, atmospheric, and ocean sciences	2,692	2,782	2,777	2,783	2,794	2,778	2,767	2,723	2,612	2,777	2,757	2,926	3,090
Atmospheric sciences	304	285	315	289	273	297	258	263	287	320	299	322	333
Earth sciences	1,302	1,355	1,379	1,433	1,452	1,427	1,428	1,437	1,387	1,403	1,503	1,644	1,773
Oceanography	526	514	466	489	497	490	503	437	431	470	463	434	469
Other geosciences	560	628	617	572	572	564	578	586	507	584	492	526	515
Mathematics/computer sciences	28,319	32,538	34,090	31,684	29,162	28,011	28,574	30,729	30,348	32,402	33,151	33,991	34,728
Computer sciences	22,262	26,054	27,066	24,276	21,755	20,569	20,978	23,002	22,805	24,237	24,836	25,376	25,578
Mathematics/statistics	6,057	6,484	7,024	7,408	7,407	7,442	7,596	7,727	7,543	8,165	8,315	8,615	9,150
Medical/other health sciences	5,532	6,249	7,273	7,552	7,394	7,734	8,334	8,339	8,097	8,545	8,654	8,031	7,516
Medical sciences	3,725	4,228	5,068	5,228	4,973	5,060	5,501	5,737	5,579	5,957	6,290	5,886	5,866
Other health sciences ^c	1,807	2,021	2,205	2,324	2,421	2,674	2,833	2,602	2,518	2,588	2,364	2,145	1,650
Physical sciences	11,655	12,203	13,090	14,127	14,613	14,700	14,757	14,475	14,407	14,763	15,078	15,321	15,556
Astronomy	271	283	303	333	370	363	366	381	381	402	440	399	406
Chemistry	6,222	6,569	7,253	7,881	8,139	8,268	8,301	8,149	8,097	8,419	8,579	8,670	8,745
Physics	5,084	5,257	5,442	5,811	6,028	5,999	6,000	5,905	5,898	5,874	5,982	6,047	6,173
Other physical sciences	78	94	92	102	76	70	90	40	31	68	77	205	232
Social/behavioral sciences	18,586	19,539	20,919	21,371	21,569	21,133	21,661	21,794	21,414	22,273	22,321	22,660	23,508
Psychology ^c	2,263	2,521	2,857	3,107	3,194	3,054	2,851	3,113	3,043	3,079	2,938	3,087	3,088
Social sciences	16,323	17,018	18,062	18,264	18,375	18,079	18,810	18,681	18,371	19,194	19,383	19,573	20,420
Anthropology	829	769	847	822	860	858	925	974	974	981	949	990	982
Economics	6,821	7,336	7,666	7,714	7,575	7,342	7,480	7,503	7,518	7,772	8,021	8,190	8,513
History of science	69	70	68	69	69	79	87	95	76	96	93	75	86
Linguistics	960	962	982	963	1,005	930	950	895	851	945	941	950	987
Political science/public administration	4,159	4,223	4,654	4,877	4,969	4,885	5,307	5,186	5,086	5,250	5,591	5,525	6,099

Appendix table 2-27

S&E graduate enrollment, by citizenship, field, and race or ethnicity: 2000–11

Citizenship, field, and race or ethnicity	2000	2001	2002	2003	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
Sociology	1,332	1,392	1,390	1,415	1,357	1,385	1,379	1,315	1,278	1,284	1,234	1,229	1,208
Other social sciences	2,153	2,266	2,455	2,404	2,540	2,600	2,682	2,713	2,588	2,866	2,554	2,614	2,545
Multidisciplinary/interdisciplinary studies	NA	NA	NA	NA	NA	NA	NA	NA	696	906	1,029	1,237	1,042

NA = not available.

^a 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.

^b Starting in 2007, includes neuroscience, which had been included in "neurology" under medical sciences in prior years.

^c 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.

^d Hispanic may be any race. American Indian or Alaska Native, Asian, black or African American, Native Hawaiian or Other Pacific Islander, white, and more than one race refer to individuals who are not of Hispanic origin.

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.

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