

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1996–2003

Field and sex	1996	1997	1998	1999	2000	2001	2002	2003
S&E	73,448	73,600	74,373	75,447	78,332	82,411	86,822	89,344
Science	55,442	54,752	55,112	54,934	56,141	59,105	62,226	64,903
Agricultural sciences	2,180	2,157	2,299	2,253	2,335	2,338	2,320	2,424
Biological sciences	10,766	11,053	11,335	10,959	10,955	11,608	12,133	12,698
Anatomy	205	175	180	161	198	159	199	178
Biochemistry	947	998	1,022	896	929	851	880	958
Biology	2,579	2,687	2,498	2,521	2,282	2,376	2,532	2,567
Biometry/epidemiology	669	656	815	825	837	953	1,001	1,022
Biophysics	155	133	158	118	128	162	166	223
Botany	394	366	409	363	357	315	335	307
Cell/molecular biology	803	859	903	867	977	993	1,085	1,139
Ecology	245	251	261	251	280	348	317	345
Entomology/parasitology	202	194	233	179	185	202	203	175
Genetics	389	441	397	427	380	382	362	373
Microbiology, immunology, and virology	844	864	857	904	823	884	914	909
Nutrition	831	797	940	834	830	906	890	895
Pathology	291	350	279	320	276	320	294	256
Pharmacology	422	458	513	487	549	507	554	552
Physiology	725	633	654	608	570	615	633	760
Zoology	313	303	274	263	230	247	231	258
Other	752	888	942	935	1,124	1,388	1,537	1,781
Computer sciences	4,917	5,018	5,758	6,677	8,431	9,077	9,037	8,148
Earth, atmospheric, and ocean sciences	2,631	2,681	2,859	2,746	2,649	2,794	3,085	3,104
Atmospheric	213	224	189	203	222	205	213	268
Earth	1,326	1,339	1,348	1,296	1,230	1,383	1,437	1,412
Ocean	371	410	471	474	479	511	533	567
Other	721	708	851	773	718	695	902	857
Mathematics and statistics	3,450	3,302	3,334	3,271	3,419	3,686	3,918	4,185
Mathematics/applied mathematics	2,845	2,741	2,721	2,650	2,757	2,892	3,114	3,266
Statistics	605	561	613	621	662	794	804	919
Physical sciences	6,015	6,037	5,932	6,004	5,829	6,011	6,280	6,841
Astronomy	157	125	162	171	183	193	194	225
Chemistry	3,702	3,758	3,682	3,672	3,482	3,651	3,746	3,983
Physics	2,088	2,074	2,046	2,074	2,101	2,102	2,231	2,543
Other	68	80	42	87	63	65	109	90
Psychology	9,140	8,800	8,590	8,305	7,545	7,691	8,420	8,922
Clinical	2,115	2,059	2,001	1,992	1,829	1,731	1,898	2,012
General	3,178	3,188	3,060	2,745	2,534	2,652	2,657	3,006
Nonclinical	3,847	3,553	3,529	3,568	3,182	3,308	3,865	3,904
Social sciences	16,343	15,704	15,005	14,719	14,978	15,900	17,033	18,581
Agricultural economics	436	467	417	482	455	496	575	536
Anthropology (cultural and social)	1,252	1,196	1,219	1,193	1,157	1,119	1,177	1,279
Economics	2,466	2,368	2,352	2,355	2,508	2,562	2,843	2,921
Geography	870	914	805	830	784	872	812	908
History and philosophy of science	58	79	89	91	78	72	97	101
Linguistics	620	579	493	422	454	495	466	588
Political science and public administration	5,842	5,264	4,953	4,837	5,142	5,562	6,241	6,948
Sociology	1,505	1,525	1,428	1,307	1,300	1,431	1,535	1,543
Other	3,294	3,312	3,249	3,202	3,100	3,291	3,287	3,757
Engineering	18,006	18,848	19,261	20,513	22,191	23,306	24,596	24,441
Aerospace	687	735	717	727	775	767	712	845
Agricultural	183	165	155	202	177	187	187	187
Biomedical	572	671	695	734	926	889	1,139	1,341
Chemical	1,478	1,467	1,503	1,491	1,595	1,541	1,616	1,600
Civil	3,845	3,792	3,785	3,726	3,840	3,820	4,107	4,363
Electrical	4,898	5,548	5,741	6,369	7,195	7,882	8,221	7,841
Engineering science/physics	273	274	308	255	299	339	404	392
Industrial/manufacturing	1,605	1,549	1,547	1,851	2,005	2,216	2,238	2,022

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1996–2003

Field and sex	1996	1997	1998	1999	2000	2001	2002	2003
Mechanical	2,785	2,829	2,923	3,119	3,269	3,583	3,698	3,476
Metallurgical/materials	791	870	900	892	1,005	975	1,044	958
Mining	51	73	44	45	48	40	41	73
Nuclear	182	178	153	150	163	164	149	177
Petroleum	122	121	132	149	149	153	198	166
Other	534	576	658	803	745	750	842	1,000
Female	29,729	29,990	30,494	31,113	32,155	34,229	37,023	38,845
Science	26,168	26,200	26,630	26,860	27,336	29,181	31,334	32,795
Agricultural sciences	870	932	1,043	1,018	1,156	1,172	1,160	1,247
Biological sciences	5,483	5,739	6,038	5,944	6,118	6,647	7,012	7,346
Anatomy	93	89	92	77	115	90	110	106
Biochemistry	420	423	463	413	451	434	457	461
Biology	1,295	1,372	1,297	1,349	1,224	1,339	1,455	1,478
Biometry/epidemiology	403	385	508	521	535	627	613	627
Biophysics	36	32	40	41	43	45	75	85
Botany	186	205	224	188	195	171	199	168
Cell/molecular biology	403	422	449	455	516	526	572	627
Ecology	128	135	123	138	153	199	173	220
Entomology/parasitology	72	73	84	64	101	92	91	88
Genetics	231	274	256	262	245	244	239	254
Microbiology, immunology, and virology	425	453	458	487	443	514	535	530
Nutrition	655	630	722	649	650	717	714	724
Pathology	143	181	157	175	173	202	184	168
Pharmacology	217	221	274	270	293	291	329	309
Physiology	286	244	258	251	257	291	296	391
Zoology	144	149	133	123	108	132	127	134
Other	346	451	500	481	616	733	843	976
Computer sciences	1,223	1,288	1,517	1,797	2,234	2,389	2,308	2,020
Earth, atmospheric, and ocean sciences	1,030	1,076	1,264	1,278	1,211	1,315	1,459	1,559
Atmospheric	47	67	49	71	68	87	73	100
Earth	464	475	547	543	513	586	612	655
Ocean	180	191	242	244	254	271	278	331
Other	339	343	426	420	376	371	496	473
Mathematics and statistics	1,243	1,225	1,238	1,257	1,282	1,442	1,525	1,606
Mathematics/applied mathematics	991	999	965	961	945	1,030	1,131	1,175
Statistics	252	226	273	296	337	412	394	431
Physical sciences	1,831	1,885	1,724	1,921	1,899	1,924	2,220	2,342
Astronomy	49	40	46	46	62	53	76	85
Chemistry	1,372	1,454	1,294	1,434	1,401	1,395	1,624	1,667
Physics	373	355	371	409	408	450	462	555
Other	37	36	13	32	28	26	58	35
Psychology	6,408	6,230	6,172	6,022	5,601	5,848	6,390	6,753
Clinical	1,516	1,467	1,435	1,485	1,410	1,303	1,477	1,575
General	2,145	2,202	2,140	1,902	1,820	1,962	1,928	2,185
Nonclinical	2,747	2,561	2,597	2,635	2,371	2,583	2,985	2,993
Social sciences	8,080	7,825	7,634	7,623	7,835	8,444	9,260	9,922
Agricultural economics	158	166	157	193	195	203	254	225
Anthropology (cultural and social)	783	723	724	734	710	702	771	843
Economics	765	820	847	810	976	936	1,107	1,102
Geography	339	349	317	363	321	378	354	387
History and philosophy of science	24	33	38	41	31	31	43	39
Linguistics	415	416	329	275	286	327	304	380
Political science and public administration	2,848	2,541	2,418	2,503	2,634	2,962	3,496	3,735
Sociology	950	949	922	852	857	957	1,010	1,020
Other	1,798	1,828	1,882	1,852	1,825	1,948	1,921	2,191
Engineering	3,561	3,790	3,864	4,253	4,819	5,048	5,689	6,050
Aerospace	86	94	89	96	127	111	120	131
Agricultural	48	57	47	76	64	68	61	69

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1996–2003

Field and sex	1996	1997	1998	1999	2000	2001	2002	2003
Biomedical	181	231	222	247	348	326	465	523
Chemical	359	390	386	382	398	400	474	501
Civil	988	1,007	1,015	1,066	1,175	1,098	1,238	1,441
Electrical	745	852	926	1,112	1,247	1,558	1,712	1,667
Engineering science/physics	57	52	68	48	72	71	89	99
Industrial/manufacturing	314	327	313	349	459	443	476	528
Mechanical	379	393	350	390	432	478	482	516
Metallurgical/materials	208	211	251	248	243	262	297	261
Mining	10	16	9	10	11	7	9	14
Nuclear	39	25	29	35	43	40	26	40
Petroleum	15	9	15	21	25	23	34	31
Other	132	126	144	173	175	163	206	229
Male	43,719	43,610	43,879	44,334	46,177	48,182	49,799	50,499
Science	29,274	28,552	28,482	28,074	28,805	29,924	30,892	32,108
Agricultural sciences	1,310	1,225	1,256	1,235	1,179	1,166	1,160	1,177
Biological sciences	5,283	5,314	5,297	5,015	4,837	4,961	5,121	5,352
Anatomy	112	86	88	84	83	69	89	72
Biochemistry	527	575	559	483	478	417	423	497
Biology	1,284	1,315	1,201	1,172	1,058	1,037	1,077	1,089
Biometry/epidemiology	266	271	307	304	302	326	388	395
Biophysics	119	101	118	77	85	117	91	138
Botany	208	161	185	175	162	144	136	139
Cell/molecular biology	400	437	454	412	461	467	513	512
Ecology	117	116	138	113	127	149	144	125
Entomology/parasitology	130	121	149	115	84	110	112	87
Genetics	158	167	141	165	135	138	123	119
Microbiology, immunology, and virology	419	411	399	417	380	370	379	379
Nutrition	176	167	218	185	180	189	176	171
Pathology	148	169	122	145	103	118	110	88
Pharmacology	205	237	239	217	256	216	225	243
Physiology	439	389	396	357	313	324	337	369
Zoology	169	154	141	140	122	115	104	124
Other	406	437	442	454	508	655	694	805
Computer sciences	3,694	3,730	4,241	4,880	6,197	6,688	6,729	6,128
Earth, atmospheric, and ocean sciences	1,601	1,605	1,595	1,468	1,438	1,479	1,626	1,545
Atmospheric	166	157	140	132	154	118	140	168
Earth	862	864	801	753	717	797	825	757
Ocean	191	219	229	230	225	240	255	236
Other	382	365	425	353	342	324	406	384
Mathematics and statistics	2,207	2,077	2,096	2,014	2,137	2,244	2,393	2,579
Mathematics/applied mathematics	1,854	1,742	1,756	1,689	1,812	1,862	1,983	2,091
Statistics	353	335	340	325	325	382	410	488
Physical sciences	4,184	4,152	4,208	4,083	3,930	4,087	4,060	4,499
Astronomy	108	85	116	125	121	140	118	140
Chemistry	2,330	2,304	2,388	2,238	2,081	2,256	2,122	2,316
Physics	1,715	1,719	1,675	1,665	1,693	1,652	1,769	1,988
Other	31	44	29	55	35	39	51	55
Psychology	2,732	2,570	2,418	2,283	1,944	1,843	2,030	2,169
Clinical	599	592	566	507	419	428	421	437
General	1,033	986	920	843	714	690	729	821
Nonclinical	1,100	992	932	933	811	725	880	911
Social sciences	8,263	7,879	7,371	7,096	7,143	7,456	7,773	8,659
Agricultural economics	278	301	260	289	260	293	321	311
Anthropology (cultural and social)	469	473	495	459	447	417	406	436
Economics	1,701	1,548	1,505	1,545	1,532	1,626	1,736	1,819
Geography	531	565	488	467	463	494	458	521
History and philosophy of science	34	46	51	50	47	41	54	62
Linguistics	205	163	164	147	168	168	162	208

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1996–2003

Field and sex	1996	1997	1998	1999	2000	2001	2002	2003
Political science and public administration	2,994	2,723	2,535	2,334	2,508	2,600	2,745	3,213
Sociology	555	576	506	455	443	474	525	523
Other	1,496	1,484	1,367	1,350	1,275	1,343	1,366	1,566
Engineering	14,445	15,058	15,397	16,260	17,372	18,258	18,907	18,391
Aerospace	601	641	628	631	648	656	592	714
Agricultural	135	108	108	126	113	119	126	118
Biomedical	391	440	473	487	578	563	674	818
Chemical	1,119	1,077	1,117	1,109	1,197	1,141	1,142	1,099
Civil	2,857	2,785	2,770	2,660	2,665	2,722	2,869	2,922
Electrical	4,153	4,696	4,815	5,257	5,948	6,324	6,509	6,174
Engineering science/physics	216	222	240	207	227	268	315	293
Industrial/manufacturing	1,291	1,222	1,234	1,502	1,546	1,773	1,762	1,494
Mechanical	2,406	2,436	2,573	2,729	2,837	3,105	3,216	2,960
Metallurgical/materials	583	659	649	644	762	713	747	697
Mining	41	57	35	35	37	33	32	59
Nuclear	143	153	124	115	120	124	123	137
Petroleum	107	112	117	128	124	130	164	135
Other	402	450	514	630	570	587	636	771

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1996–2003.