

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
S&E	73,600	74,373	75,447	78,332	82,411	86,833	89,331	86,447
Science	54,752	55,112	54,934	56,141	59,105	62,226	64,902	64,462
Agricultural sciences	2,157	2,299	2,253	2,335	2,338	2,320	2,424	2,316
Biological sciences	11,053	11,335	10,959	10,955	11,608	12,133	12,719	12,763
Anatomy	175	180	161	198	159	199	178	180
Biochemistry	998	1,022	896	929	851	880	958	907
Biology	2,687	2,498	2,521	2,282	2,376	2,532	2,610	2,718
Biometry/epidemiology	656	815	825	837	953	1,001	1,022	986
Biophysics	133	158	118	128	162	166	223	210
Botany	366	409	363	357	315	335	307	336
Cell/molecular biology	859	903	867	977	993	1,085	1,125	1,140
Ecology	251	261	251	280	348	317	345	302
Entomology/parasitology	194	233	179	185	202	203	175	211
Genetics	441	397	427	380	382	362	373	441
Microbiology, immunology, and virology	864	857	904	823	884	914	909	889
Nutrition	797	940	834	830	906	890	895	841
Pathology	350	279	320	276	320	294	256	277
Pharmacology	458	513	487	549	507	554	552	494
Physiology	633	654	608	570	615	633	760	738
Zoology	303	274	263	230	247	231	258	212
Other	888	942	935	1,124	1,388	1,537	1,773	1,881
Computer sciences	5,018	5,758	6,677	8,431	9,077	9,037	8,134	7,767
Earth, atmospheric, and ocean sciences	2,681	2,859	2,746	2,649	2,794	3,085	3,104	2,942
Atmospheric	224	189	203	222	205	213	268	228
Earth	1,339	1,348	1,296	1,230	1,383	1,437	1,412	1,336
Ocean	410	471	474	479	511	533	567	550
Other	708	851	773	718	695	902	857	828
Mathematics and statistics	3,302	3,334	3,271	3,419	3,686	3,918	4,185	4,243
Mathematics/applied mathematics	2,741	2,721	2,650	2,757	2,892	3,114	3,266	3,356
Statistics	561	613	621	662	794	804	919	887
Physical sciences	6,037	5,932	6,004	5,829	6,011	6,280	6,841	6,591
Astronomy	125	162	171	183	193	194	225	210
Chemistry	3,758	3,682	3,672	3,482	3,651	3,746	3,983	3,862
Physics	2,074	2,046	2,074	2,101	2,102	2,231	2,543	2,430
Other	80	42	87	63	65	109	90	89
Psychology	8,800	8,590	8,305	7,545	7,691	8,420	8,858	9,455
Clinical	2,059	2,001	1,992	1,829	1,731	1,898	1,986	2,251
General	3,188	3,060	2,745	2,534	2,652	2,657	3,009	2,960
Nonclinical	3,553	3,529	3,568	3,182	3,308	3,865	3,863	4,244
Social sciences	15,704	15,005	14,719	14,978	15,900	17,033	18,637	18,385
Agricultural economics	467	417	482	455	496	575	536	523
Anthropology (cultural and social)	1,196	1,219	1,193	1,157	1,119	1,177	1,279	1,180
Economics	2,368	2,352	2,355	2,508	2,562	2,843	2,921	2,686
Geography	914	805	830	784	872	812	915	858
History and philosophy of science	79	89	91	78	72	97	107	107
Linguistics	579	493	422	454	495	466	588	574
Political science and public administration	5,264	4,953	4,837	5,142	5,562	6,241	6,950	7,340
Sociology	1,525	1,428	1,307	1,300	1,431	1,535	1,543	1,346
Other	3,312	3,249	3,202	3,100	3,291	3,287	3,798	3,771
Engineering	18,848	19,261	20,513	22,191	23,306	24,607	24,429	21,985
Aerospace	735	717	727	775	767	712	845	834
Agricultural	165	155	202	177	187	187	187	177
Biomedical	671	695	734	926	889	1,139	1,337	1,277
Chemical	1,467	1,503	1,491	1,595	1,541	1,616	1,600	1,392
Civil	3,792	3,785	3,726	3,840	3,820	4,107	4,363	4,131
Electrical	5,548	5,741	6,369	7,195	7,882	8,221	7,834	6,633
Engineering science/physics	274	308	255	299	339	404	392	361
Industrial/manufacturing	1,549	1,547	1,851	2,005	2,216	2,238	2,029	1,717
Mechanical	2,829	2,923	3,119	3,269	3,583	3,709	3,476	3,139

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Metallurgical/materials	870	900	892	1,005	975	1,044	958	924
Mining	73	44	45	48	40	41	73	64
Nuclear	178	153	150	163	164	149	177	192
Petroleum	121	132	149	149	153	198	166	151
Other	576	658	803	745	750	842	992	993
Female	29,990	30,494	31,113	32,155	34,229	37,023	38,824	38,130
Science	26,200	26,630	26,860	27,336	29,181	31,334	32,778	32,768
Agricultural sciences	932	1,043	1,018	1,156	1,172	1,160	1,247	1,167
Biological sciences	5,739	6,038	5,944	6,118	6,647	7,012	7,357	7,524
Anatomy	89	92	77	115	90	110	106	100
Biochemistry	423	463	413	451	434	457	461	465
Biology	1,372	1,297	1,349	1,224	1,339	1,455	1,501	1,600
Biometry/epidemiology	385	508	521	535	627	613	627	605
Biophysics	32	40	41	43	45	75	85	79
Botany	205	224	188	195	171	199	168	197
Cell/molecular biology	422	449	455	516	526	572	622	627
Ecology	135	123	138	153	199	173	220	174
Entomology/parasitology	73	84	64	101	92	91	88	107
Genetics	274	256	262	245	244	239	254	294
Microbiology, immunology, and virology	453	458	487	443	514	535	530	549
Nutrition	630	722	649	650	717	714	724	690
Pathology	181	157	175	173	202	184	168	177
Pharmacology	221	274	270	293	291	329	309	271
Physiology	244	258	251	257	291	296	391	393
Zoology	149	133	123	108	132	127	134	125
Other	451	500	481	616	733	843	969	1,071
Computer sciences	1,288	1,517	1,797	2,234	2,389	2,308	2,017	1,860
Earth, atmospheric, and ocean sciences	1,076	1,264	1,278	1,211	1,315	1,459	1,559	1,455
Atmospheric	67	49	71	68	87	73	100	90
Earth	475	547	543	513	586	612	655	607
Ocean	191	242	244	254	271	278	331	323
Other	343	426	420	376	371	496	473	435
Mathematics and statistics	1,225	1,238	1,257	1,282	1,442	1,525	1,606	1,567
Mathematics/applied mathematics	999	965	961	945	1,030	1,131	1,175	1,156
Statistics	226	273	296	337	412	394	431	411
Physical sciences	1,885	1,724	1,921	1,899	1,924	2,220	2,342	2,269
Astronomy	40	46	46	62	53	76	85	71
Chemistry	1,454	1,294	1,434	1,401	1,395	1,624	1,667	1,653
Physics	355	371	409	408	450	462	555	502
Other	36	13	32	28	26	58	35	43
Psychology	6,230	6,172	6,022	5,601	5,848	6,390	6,694	7,158
Clinical	1,467	1,435	1,485	1,410	1,303	1,477	1,552	1,748
General	2,202	2,140	1,902	1,820	1,962	1,928	2,188	2,102
Nonclinical	2,561	2,597	2,635	2,371	2,583	2,985	2,954	3,308
Social sciences	7,825	7,634	7,623	7,835	8,444	9,260	9,956	9,768
Agricultural economics	166	157	193	195	203	254	225	214
Anthropology (cultural and social)	723	724	734	710	702	771	843	781
Economics	820	847	810	976	936	1,107	1,102	1,006
Geography	349	317	363	321	378	354	389	365
History and philosophy of science	33	38	41	31	31	43	43	45
Linguistics	416	329	275	286	327	304	380	373
Political science and public administration	2,541	2,418	2,503	2,634	2,962	3,496	3,736	3,895
Sociology	949	922	852	857	957	1,010	1,020	878
Other	1,828	1,882	1,852	1,825	1,948	1,921	2,218	2,211
Engineering	3,790	3,864	4,253	4,819	5,048	5,689	6,046	5,362
Aerospace	94	89	96	127	111	120	131	150
Agricultural	57	47	76	64	68	61	69	68
Biomedical	231	222	247	348	326	465	521	521

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Chemical	390	386	382	398	400	474	501	412
Civil	1,007	1,015	1,066	1,175	1,098	1,238	1,441	1,306
Electrical	852	926	1,112	1,247	1,558	1,712	1,666	1,281
Engineering science/physics	52	68	48	72	71	89	99	89
Industrial/manufacturing	327	313	349	459	443	476	530	452
Mechanical	393	350	390	432	478	482	516	462
Metallurgical/materials	211	251	248	243	262	297	261	258
Mining	16	9	10	11	7	9	14	5
Nuclear	25	29	35	43	40	26	40	51
Petroleum	9	15	21	25	23	34	31	31
Other	126	144	173	175	163	206	226	276
Male	43,610	43,879	44,334	46,177	48,182	49,810	50,507	48,317
Science	28,552	28,482	28,074	28,805	29,924	30,892	32,124	31,694
Agricultural sciences	1,225	1,256	1,235	1,179	1,166	1,160	1,177	1,149
Biological sciences	5,314	5,297	5,015	4,837	4,961	5,121	5,362	5,239
Anatomy	86	88	84	83	69	89	72	80
Biochemistry	575	559	483	478	417	423	497	442
Biology	1,315	1,201	1,172	1,058	1,037	1,077	1,109	1,118
Biometry/epidemiology	271	307	304	302	326	388	395	381
Biophysics	101	118	77	85	117	91	138	131
Botany	161	185	175	162	144	136	139	139
Cell/molecular biology	437	454	412	461	467	513	503	513
Ecology	116	138	113	127	149	144	125	128
Entomology/parasitology	121	149	115	84	110	112	87	104
Genetics	167	141	165	135	138	123	119	147
Microbiology, immunology, and virology	411	399	417	380	370	379	379	340
Nutrition	167	218	185	180	189	176	171	151
Pathology	169	122	145	103	118	110	88	100
Pharmacology	237	239	217	256	216	225	243	223
Physiology	389	396	357	313	324	337	369	345
Zoology	154	141	140	122	115	104	124	87
Other	437	442	454	508	655	694	804	810
Computer sciences	3,730	4,241	4,880	6,197	6,688	6,729	6,117	5,907
Earth, atmospheric, and ocean sciences	1,605	1,595	1,468	1,438	1,479	1,626	1,545	1,487
Atmospheric	157	140	132	154	118	140	168	138
Earth	864	801	753	717	797	825	757	729
Ocean	219	229	230	225	240	255	236	227
Other	365	425	353	342	324	406	384	393
Mathematics and statistics	2,077	2,096	2,014	2,137	2,244	2,393	2,579	2,676
Mathematics/applied mathematics	1,742	1,756	1,689	1,812	1,862	1,983	2,091	2,200
Statistics	335	340	325	325	382	410	488	476
Physical sciences	4,152	4,208	4,083	3,930	4,087	4,060	4,499	4,322
Astronomy	85	116	125	121	140	118	140	139
Chemistry	2,304	2,388	2,238	2,081	2,256	2,122	2,316	2,209
Physics	1,719	1,675	1,665	1,693	1,652	1,769	1,988	1,928
Other	44	29	55	35	39	51	55	46
Psychology	2,570	2,418	2,283	1,944	1,843	2,030	2,164	2,297
Clinical	592	566	507	419	428	421	434	503
General	986	920	843	714	690	729	821	858
Nonclinical	992	932	933	811	725	880	909	936
Social sciences	7,879	7,371	7,096	7,143	7,456	7,773	8,681	8,617
Agricultural economics	301	260	289	260	293	321	311	309
Anthropology (cultural and social)	473	495	459	447	417	406	436	399
Economics	1,548	1,505	1,545	1,532	1,626	1,736	1,819	1,680
Geography	565	488	467	463	494	458	526	493
History and philosophy of science	46	51	50	47	41	54	64	62
Linguistics	163	164	147	168	168	162	208	201
Political science and public administration	2,723	2,535	2,334	2,508	2,600	2,745	3,214	3,445

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Sociology	576	506	455	443	474	525	523	468
Other	1,484	1,367	1,350	1,275	1,343	1,366	1,580	1,560
Engineering	15,058	15,397	16,260	17,372	18,258	18,918	18,383	16,623
Aerospace	641	628	631	648	656	592	714	684
Agricultural	108	108	126	113	119	126	118	109
Biomedical	440	473	487	578	563	674	816	756
Chemical	1,077	1,117	1,109	1,197	1,141	1,142	1,099	980
Civil	2,785	2,770	2,660	2,665	2,722	2,869	2,922	2,825
Electrical	4,696	4,815	5,257	5,948	6,324	6,509	6,168	5,352
Engineering science/physics	222	240	207	227	268	315	293	272
Industrial/manufacturing	1,222	1,234	1,502	1,546	1,773	1,762	1,499	1,265
Mechanical	2,436	2,573	2,729	2,837	3,105	3,227	2,960	2,677
Metallurgical/materials	659	649	644	762	713	747	697	666
Mining	57	35	35	37	33	32	59	59
Nuclear	153	124	115	120	124	123	137	141
Petroleum	112	117	128	124	130	164	135	120
Other	450	514	630	570	587	636	766	717

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1997–2004.