

TABLE 12. First-time, full-time graduate students in science, engineering, and health in all institutions, by detailed field: 2005–11

Field	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
All surveyed fields	110,219	116,482	120,236	122,449	130,635	134,756	136,487	136,610
Science and engineering	89,038	94,413	98,205	100,990	108,819	115,755	118,492	120,135
Science	66,665	68,537	70,387	72,725	78,227	83,252	84,689	86,810
Agricultural sciences	2,260	2,206	2,313	2,356	2,597	2,994	3,121	3,053
Biological sciences	12,918	13,055	13,485	13,749	14,528	15,443	16,038	16,599
Anatomy	213	213	252	194	146	181	154	153
Biochemistry	930	992	945	945	966	949	880	900
Biology	2,826	2,994	3,083	3,005	3,221	3,421	3,494	3,491
Biometry/epidemiology	1,069	974	1,126	1,171	1,147	1,198	1,510	1,584
Biophysics	174	186	197	183	199	161	190	173
Botany	316	318	333	331	304	340	339	334
Cell biology	1,208	1,294	1,249	1,254	1,372	1,461	1,500	1,451
Ecology	314	294	361	337	355	285	335	288
Entomology/parasitology	153	169	161	161	167	193	193	190
Genetics	365	348	330	319	370	405	402	417
Microbiology/immunology/virology	868	853	741	724	772	799	789	845
Nutrition	863	905	1,121	1,035	1,110	1,121	1,275	1,156
Pathology	248	269	257	266	321	266	230	227
Pharmacology	466	469	437	437	487	577	549	518
Physiology	678	597	603	669	690	751	727	772
Zoology	199	179	165	215	145	133	119	128
Biological sciences, nec	2,028	2,001	2,124	2,503	2,756	3,202	3,352	3,972
Communication <sup>a</sup>	ne	ne	ne	1,531	1,912	2,119	2,089	2,367
Computer sciences	8,258	8,983	9,352	9,256	10,434	10,557	10,583	10,995
Earth, atmospheric, and ocean sciences	2,758	2,795	2,861	2,749	2,904	3,153	3,445	3,408
Atmospheric sciences	228	207	233	243	263	250	279	266
Geosciences	1,308	1,348	1,410	1,405	1,429	1,682	1,887	1,839
Oceanography	463	457	412	402	466	517	502	520
Earth/atmospheric/ocean sciences, nec	759	783	806	699	746	704	777	783
Family and consumer sciences/human sciences <sup>a</sup>	ne	ne	ne	492	579	633	741	832
Mathematical sciences	4,196	4,342	4,595	4,432	4,591	4,888	5,193	5,594
Mathematics/applied mathematics	3,263	3,398	3,518	3,352	3,409	3,611	3,801	4,108
Statistics	933	944	1,077	1,080	1,182	1,277	1,392	1,486
Multidisciplinary/interdisciplinary studies <sup>a</sup>	ne	ne	ne	771	1,140	1,412	1,759	1,384
Neuroscience <sup>a</sup>	na	na	na	273	304	395	505	728
Physical sciences	6,657	6,626	6,787	6,711	6,892	7,276	7,577	7,762
Astronomy	190	204	207	207	225	250	234	267
Chemistry	3,904	3,900	3,972	3,938	4,161	4,331	4,557	4,585
Physics	2,458	2,409	2,534	2,523	2,406	2,571	2,663	2,766
Physical sciences, nec	105	113	74	43	100	124	123	144
Psychology <sup>b</sup>	10,358	10,224	10,624	10,476	11,082	10,980	10,231	10,218
Clinical psychology	2,318	2,201	2,232	2,227	2,064	2,136	2,025	1,897
Psychology, general	3,385	3,374	3,536	3,438	3,635	3,300	3,024	3,115
Psychology, nec	4,655	4,649	4,856	4,811	5,383	5,544	5,182	5,206
Social sciences	19,260	20,306	20,370	19,929	21,264	23,402	23,407	23,870
Agricultural economics	557	543	516	491	573	610	510	528
Anthropology (cultural/social)	1,243	1,314	1,305	1,310	1,444	1,452	1,454	1,407
Economics (except agricultural)	2,724	2,907	3,108	3,179	3,263	3,855	3,926	4,045
Geography	898	845	897	897	1,013	1,017	1,042	1,043
History and philosophy of science	138	121	163	151	205	119	94	85
Linguistics	633	577	580	535	557	632	645	680
Political science	7,807	8,319	7,749	7,627	8,152	9,736	9,637	10,618
Sociology	1,499	1,353	1,647	1,610	1,795	1,671	1,685	1,742
Sociology/anthropology	173	151	136	120	93	90	44	41
Social sciences, nec	3,588	4,176	4,269	4,009	4,169	4,220	4,370	3,681

TABLE 12. First-time, full-time graduate students in science, engineering, and health in all institutions, by detailed field: 2005–11

Field	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
Engineering	22,373	25,876	27,818	28,265	30,592	32,503	33,803	33,325
Aerospace engineering	804	943	962	962	1,116	1,176	1,196	1,239
Agricultural engineering	190	222	224	224	256	296	346	353
Architecture <sup>a</sup>	na	na	na	1,533	1,979	2,273	2,263	970
Biomedical engineering	1,267	1,472	1,559	1,565	1,648	1,833	2,011	2,141
Chemical engineering	1,293	1,429	1,532	1,566	1,713	1,910	2,047	2,039
Civil engineering <sup>a</sup>	4,057	4,198	4,926	3,662	4,073	4,878	5,079	5,003
Electrical engineering	6,987	8,668	8,887	8,920	9,042	8,831	9,237	9,790
Engineering science	317	321	331	339	398	309	356	363
Industrial engineering	1,674	2,148	2,445	2,626	3,015	2,908	2,783	2,837
Mechanical engineering	3,225	3,734	3,941	3,937	4,297	4,814	5,055	4,832
Metallurgical/materials engineering	992	1,043	1,089	1,086	1,170	1,302	1,431	1,561
Mining engineering	58	50	58	33	48	45	54	94
Nuclear engineering	193	206	239	237	259	265	330	280
Petroleum engineering	161	174	220	220	261	306	265	323
Engineering, nec	1,155	1,268	1,405	1,355	1,317	1,357	1,350	1,500
Health <sup>b</sup>	21,181	22,069	22,031	21,459	21,816	19,001	17,995	16,475
Clinical medicine	4,626	5,280	5,701	5,225	6,213	6,141	6,545	6,581
Anesthesiology	251	358	189	189	209	124	106	0
Cardiology	4	3	22	22	2	9	10	14
Endocrinology	10	7	7	7	20	8	7	9
Gastroenterology	3	0	0	0	3	1	2	1
Hematology	0	1	3	3	5	1	0	1
Neurology <sup>a</sup>	425	454	567	283	216	244	157	28
Obstetrics/gynecology	4	9	30	30	28	29	27	30
Oncology/cancer research	43	45	42	34	34	47	39	40
Ophthalmology	80	92	83	80	0	0	1	0
Otorhinolaryngology	0	0	2	2	0	0	2	0
Pediatrics	100	110	88	88	62	49	54	34
Preventive medicine/community health	2,894	3,355	3,784	3,839	4,771	4,898	5,311	5,638
Psychiatry	34	32	12	12	30	38	44	38
Pulmonary disease	0	0	1	1	3	0	0	1
Radiology	48	60	70	74	74	87	99	79
Surgery	5	11	5	4	4	6	21	11
Clinical medicine, nec	725	743	796	557	752	600	665	657
Other health <sup>b</sup>	16,555	16,789	16,330	16,234	15,603	12,860	11,450	9,894
Dental sciences	429	402	364	389	410	475	421	487
Nursing	3,948	3,944	3,953	3,950	3,584	2,315	1,386	902
Pharmaceutical sciences	1,246	1,036	712	732	691	756	662	674
Speech pathology/audiology	4,496	4,491	4,626	4,620	4,691	4,683	4,729	4,681
Veterinary sciences	343	378	478	524	439	342	334	272
Other health, nec	6,093	6,538	6,197	6,019	5,788	4,289	3,918	2,878

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

<sup>a</sup> In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as a separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as a separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in <http://www.nsf.gov/statistics/nsf10307/> for more detail.

<sup>b</sup> Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (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, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.