

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

Field	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
All surveyed fields	406,620	419,015	430,860	437,365	449,613	456,115	461,185	457,292
Science and engineering	341,742	349,802	362,976	371,542	383,560	398,498	409,107	411,168
Science	257,283	261,984	269,821	277,229	285,305	293,561	299,315	303,015
Agricultural sciences	9,710	9,478	9,634	9,822	10,132	10,823	11,087	11,448
Biological sciences	57,697	58,918	60,093	60,428	60,662	61,466	62,770	62,773
Anatomy	844	899	906	823	731	806	800	726
Biochemistry	5,486	5,433	5,581	5,498	5,085	4,886	4,909	4,771
Biology	11,926	12,413	12,330	12,062	12,486	12,811	13,084	12,832
Biometry/epidemiology	3,417	3,495	3,734	3,919	4,294	4,176	4,868	4,933
Biophysics	1,120	1,145	1,183	1,159	1,037	1,001	1,033	972
Botany	1,667	1,655	1,713	1,655	1,613	1,664	1,679	1,729
Cell biology	5,770	6,188	6,317	6,445	6,632	6,660	6,621	6,517
Ecology	1,600	1,602	1,744	1,617	1,620	1,417	1,471	1,372
Entomology/parasitology	943	947	926	926	910	892	933	910
Genetics	2,063	2,060	2,067	2,042	2,056	2,175	2,254	2,318
Microbiology/immunology/virology	5,074	5,015	4,992	4,898	4,745	4,660	4,569	4,643
Nutrition	3,424	3,441	3,621	3,365	3,526	3,631	3,776	3,625
Pathology	1,375	1,400	1,406	1,386	1,384	1,308	1,272	1,218
Pharmacology	2,905	2,818	2,808	2,789	2,743	2,884	2,756	2,714
Physiology	2,187	2,195	2,164	2,455	2,606	2,597	2,678	2,681
Zoology	1,094	994	964	976	726	661	589	686
Biological sciences, nec	6,802	7,218	7,637	8,413	8,468	9,237	9,478	10,126
Communication ^a	ne	ne	ne	4,528	5,224	6,091	6,274	6,913
Computer sciences	28,317	28,760	30,511	30,082	31,338	32,198	32,782	32,861
Earth, atmospheric, and ocean sciences	11,370	11,431	11,376	10,892	11,171	11,589	12,318	12,404
Atmospheric sciences	1,002	930	959	1,011	1,169	1,132	1,193	1,197
Geosciences	5,537	5,497	5,473	5,423	5,409	5,825	6,352	6,450
Oceanography	2,198	2,231	2,177	2,144	2,120	2,197	2,130	2,199
Earth/atmospheric/ocean sciences, nec	2,633	2,773	2,767	2,314	2,473	2,435	2,643	2,558
Family and consumer sciences/human sciences ^a	ne	ne	ne	1,594	1,936	2,168	2,377	2,616
Mathematical sciences	15,261	15,571	15,966	15,668	16,241	16,885	17,606	18,303
Mathematics/applied mathematics	12,051	12,348	12,587	12,279	12,530	12,950	13,427	14,014
Statistics	3,210	3,223	3,379	3,389	3,711	3,935	4,179	4,289
Multidisciplinary/interdisciplinary studies ^a	ne	ne	ne	2,398	3,110	3,957	5,063	4,103
Neuroscience ^a	na	na	na	1,530	1,909	2,261	2,682	3,911
Physical sciences	32,400	32,841	33,091	32,857	33,254	34,181	34,856	35,643
Astronomy	1,129	1,158	1,186	1,185	1,233	1,348	1,292	1,325
Chemistry	18,760	18,942	19,001	18,887	19,073	19,682	20,011	20,403
Physics	12,224	12,439	12,596	12,570	12,626	12,771	13,085	13,413
Physical sciences, nec	287	302	308	215	322	380	468	502
Psychology ^b	38,919	38,994	41,166	40,678	42,103	40,373	38,571	38,548
Clinical psychology	10,531	10,168	10,687	10,691	10,349	10,144	9,378	8,094
Psychology, general	12,016	12,148	12,824	12,550	12,925	11,443	10,716	12,872
Psychology, nec	16,372	16,678	17,655	17,437	18,829	18,786	18,477	17,582
Social sciences	63,609	65,991	67,984	66,752	68,225	71,569	72,929	73,492
Agricultural economics	1,831	1,836	1,856	1,762	1,868	1,896	1,825	1,767
Anthropology (cultural/social)	5,877	6,219	6,303	6,315	6,459	6,462	6,596	6,471
Economics (except agricultural)	9,715	10,018	10,181	10,358	10,541	11,433	11,879	12,391
Geography	3,196	3,158	3,166	3,166	3,299	3,331	3,373	3,383
History and philosophy of science	582	602	726	661	798	653	476	425
Linguistics	2,519	2,488	2,453	2,275	2,328	2,386	2,419	2,589
Political science	22,222	23,109	23,473	23,209	23,640	25,970	26,850	28,554
Sociology	6,614	6,682	6,819	6,750	7,110	7,006	7,222	7,148
Sociology/anthropology	601	579	559	428	393	301	171	173
Social sciences, nec	10,452	11,300	12,448	11,828	11,789	12,131	12,118	10,591

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

Field	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
Engineering	84,459	87,818	93,155	94,313	98,255	104,937	109,792	108,153
Aerospace engineering	3,241	3,374	3,482	3,482	3,691	3,974	4,211	4,251
Agricultural engineering	855	893	917	917	1,022	1,084	1,198	1,372
Architecture ^a	na	na	na	4,097	5,211	6,112	6,079	2,772
Biomedical engineering	5,254	5,666	5,898	5,921	6,262	6,859	7,418	7,931
Chemical engineering	6,139	6,218	6,275	6,459	6,762	7,110	7,516	7,639
Civil engineering ^a	13,196	13,074	14,691	11,336	11,909	13,503	14,191	14,363
Electrical engineering	25,849	27,379	28,934	29,076	29,212	29,282	29,977	30,735
Engineering science	1,613	1,656	1,454	1,432	1,486	1,490	1,502	1,574
Industrial engineering	6,113	6,421	7,036	7,422	8,216	8,362	8,371	8,251
Mechanical engineering	12,178	12,666	13,170	13,160	13,763	15,609	16,625	16,084
Metallurgical/materials engineering	4,507	4,627	4,667	4,613	4,811	5,181	5,551	5,877
Mining engineering	212	181	209	142	207	212	361	414
Nuclear engineering	840	910	960	951	941	968	1,123	1,165
Petroleum engineering	631	647	792	792	828	993	1,063	1,064
Engineering, nec	3,831	4,106	4,670	4,513	3,934	4,198	4,606	4,661
Health ^b	64,878	69,213	67,884	65,823	66,053	57,617	52,078	46,124
Clinical medicine	15,102	16,567	17,451	15,478	16,965	16,725	17,704	17,853
Anesthesiology	1,120	1,189	826	826	562	400	321	5
Cardiology	33	32	51	51	38	38	48	54
Endocrinology	52	42	37	37	60	47	48	48
Gastroenterology	3	17	28	28	15	15	7	7
Hematology	9	14	9	9	8	9	4	1
Neurology ^a	2,684	2,885	3,283	1,707	1,416	1,284	1,039	211
Obstetrics/gynecology	16	47	71	71	65	69	55	75
Oncology/cancer research	329	340	355	264	260	258	229	248
Ophthalmology	380	389	385	378	1	1	5	2
Otorhinolaryngology	6	8	7	7	9	2	3	1
Pediatrics	225	245	267	267	169	162	183	117
Preventive medicine/community health	7,552	8,590	9,292	9,585	11,679	12,219	13,312	14,913
Psychiatry	117	126	153	93	95	114	122	88
Pulmonary disease	27	10	23	23	13	12	12	14
Radiology	189	184	213	224	225	271	284	261
Surgery	70	85	45	29	17	26	49	20
Clinical medicine, nec	2,290	2,364	2,406	1,879	2,333	1,798	1,983	1,788
Other health ^b	49,776	52,646	50,433	50,345	49,088	40,892	34,374	28,271
Dental sciences	1,494	1,340	1,265	1,406	1,372	1,564	1,494	1,553
Nursing	12,571	13,979	13,137	13,128	13,204	9,544	4,980	3,294
Pharmaceutical sciences	4,255	4,480	3,756	3,852	2,979	3,182	3,032	2,836
Speech pathology/audiology	11,259	11,506	12,698	12,679	12,438	12,466	12,554	12,116
Veterinary sciences	1,532	1,663	1,634	1,891	1,860	1,637	1,651	1,271
Other health, nec	18,665	19,678	17,943	17,389	17,235	12,499	10,663	7,201

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.

^a 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.

^b 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.