

TABLE 10. Female graduate students in science, engineering, and health in all institutions, by detailed field: 2005–11

Field	2005	2006	2007old ^d	2007new ^d	2008	2009	2010	2011
All surveyed fields	286,935	297,825	299,671	307,490	311,179	303,120	297,171	291,550
Science and engineering	206,308	211,106	218,295	227,273	231,997	237,749	240,481	242,732
Science	179,413	183,162	188,321	196,801	200,460	204,431	206,028	208,991
Agricultural sciences	6,202	6,299	6,444	6,627	6,891	7,485	7,819	8,026
Biological sciences	38,521	39,369	40,651	40,754	41,334	41,818	42,571	42,833
Anatomy	466	487	505	428	383	428	432	380
Biochemistry	2,818	2,812	2,899	2,868	2,691	2,615	2,655	2,550
Biology	8,638	9,056	9,042	8,891	9,226	9,494	9,582	9,474
Biometry/epidemiology	3,009	2,985	3,330	3,412	3,560	3,395	3,747	3,927
Biophysics	408	405	418	417	383	377	376	366
Botany	985	962	977	940	945	971	979	985
Cell biology	3,290	3,530	3,653	3,742	3,903	3,950	3,823	3,743
Ecology	1,210	1,224	1,249	1,139	1,126	960	1,009	958
Entomology/parasitology	520	518	507	507	504	512	550	539
Genetics	1,309	1,317	1,284	1,274	1,277	1,351	1,373	1,401
Microbiology/immunology/virology	3,082	3,050	3,060	3,004	2,933	2,911	2,849	2,905
Nutrition	3,791	3,941	4,117	3,865	4,172	4,300	4,479	4,400
Pathology	958	981	999	964	1,011	910	835	801
Pharmacology	1,713	1,664	1,679	1,671	1,679	1,772	1,755	1,709
Physiology	1,255	1,275	1,277	1,460	1,505	1,425	1,466	1,490
Zoology	636	586	571	595	466	476	508	634
Biological sciences, nec	4,433	4,576	5,084	5,577	5,570	5,971	6,153	6,571
Communication ^a	ne	ne	ne	4,647	5,381	6,029	6,353	7,041
Computer sciences	12,045	12,062	12,206	12,017	12,545	13,053	12,807	12,607
Earth, atmospheric, and ocean sciences	6,895	7,004	6,951	6,650	6,621	6,815	7,200	7,175
Atmospheric sciences	388	367	395	419	449	447	484	477
Geosciences	3,043	3,081	3,055	3,040	3,042	3,195	3,493	3,461
Oceanography	1,481	1,497	1,464	1,439	1,433	1,431	1,423	1,494
Earth/atmospheric/ocean sciences, nec	1,983	2,059	2,037	1,752	1,697	1,742	1,800	1,743
Family and consumer sciences/human sciences ^a	ne	ne	ne	2,327	2,958	3,203	3,461	3,721
Mathematical sciences	7,437	7,693	7,781	7,678	7,751	7,979	8,127	8,360
Mathematics/applied mathematics	5,560	5,772	5,751	5,648	5,540	5,787	5,768	5,899
Statistics	1,877	1,921	2,030	2,030	2,211	2,192	2,359	2,461
Multidisciplinary/interdisciplinary studies ^a	ne	ne	ne	2,560	3,234	3,809	4,493	3,431
Neuroscience ^a	na	na	na	863	1,097	1,264	1,474	2,199
Physical sciences	11,726	12,005	12,253	12,109	12,333	12,691	12,826	13,112
Astronomy	394	407	414	414	410	431	423	423
Chemistry	8,423	8,644	8,821	8,770	8,983	9,222	9,261	9,441
Physics	2,669	2,710	2,776	2,768	2,758	2,846	2,899	2,979
Physical sciences, nec	240	244	242	157	182	192	243	269
Psychology ^b	43,319	43,703	45,594	45,116	44,615	42,536	40,238	40,921
Clinical psychology	11,012	10,843	11,294	11,269	10,589	10,205	9,455	8,210
Psychology, general	11,930	11,989	13,405	13,036	12,581	10,867	9,992	12,533
Psychology, nec	20,377	20,871	20,895	20,811	21,445	21,464	20,791	20,178
Social sciences	53,268	55,027	56,441	55,453	55,700	57,749	58,659	59,565
Agricultural economics	875	909	907	849	914	949	927	908
Anthropology (cultural/social)	4,940	5,215	5,151	5,169	5,314	5,337	5,490	5,357
Economics (except agricultural)	4,254	4,343	4,555	4,699	4,815	5,120	5,214	5,544
Geography	2,013	2,002	1,971	1,971	1,999	2,071	2,172	2,195
History and philosophy of science	440	428	482	449	496	409	316	266
Linguistics	2,055	1,986	1,993	1,876	2,002	1,940	1,888	1,940
Political science	21,882	22,239	22,146	21,820	21,696	23,379	23,970	26,163
Sociology	5,793	5,793	6,235	6,163	6,440	6,159	6,326	6,185
Sociology/anthropology	545	547	552	455	424	371	218	204
Social sciences, nec	10,471	11,565	12,449	12,002	11,600	12,014	12,138	10,803

TABLE 10. Female graduate students in science, engineering, and health in all institutions, by detailed field: 2005–11

Field	2005	2006	2007old ^d	2007new ^d	2008	2009	2010	2011
Engineering	26,895	27,944	29,974	30,472	31,537	33,318	34,453	33,741
Aerospace engineering	607	709	700	700	722	734	784	782
Agricultural engineering	323	350	366	366	398	437	509	618
Architecture ^a	na	na	na	1,974	2,612	2,997	3,044	1,443
Biomedical engineering	2,297	2,486	2,610	2,621	2,761	2,979	3,133	3,459
Chemical engineering	2,079	2,159	2,235	2,266	2,409	2,616	2,722	2,850
Civil engineering ^a	5,405	5,423	6,348	4,736	4,765	5,301	5,571	5,589
Electrical engineering	6,788	7,026	7,367	7,439	7,340	7,174	7,193	7,430
Engineering science	419	451	412	409	471	478	438	434
Industrial engineering	3,296	3,466	3,520	3,544	3,714	3,800	3,684	3,610
Mechanical engineering	2,408	2,485	2,615	2,614	2,749	2,990	3,186	3,163
Metallurgical/materials engineering	1,348	1,390	1,460	1,473	1,533	1,589	1,754	1,876
Mining engineering	39	43	51	37	49	55	77	93
Nuclear engineering	211	214	226	221	214	198	228	225
Petroleum engineering	121	135	183	183	191	209	235	229
Engineering, nec	1,554	1,607	1,881	1,889	1,609	1,761	1,895	1,940
Health ^b	80,627	86,719	81,376	80,217	79,182	65,371	56,690	48,818
Clinical medicine	14,075	15,533	16,306	15,350	16,347	16,445	17,857	18,788
Anesthesiology	900	905	561	561	354	249	193	2
Cardiology	13	11	29	29	22	20	22	27
Endocrinology	31	21	24	24	47	33	31	33
Gastroenterology	5	10	14	14	7	8	3	1
Hematology	5	4	7	7	4	6	3	1
Neurology ^a	1,426	1,571	1,820	932	782	676	552	107
Obstetrics/gynecology	9	33	57	57	65	69	61	72
Oncology/cancer research	189	195	207	152	154	156	136	147
Ophthalmology	264	280	291	273	0	0	1	0
Otorhinolaryngology	5	7	9	9	9	2	2	1
Pediatrics	229	236	249	249	163	141	161	86
Preventive medicine/community health	8,929	10,113	11,011	11,468	12,818	13,452	14,865	16,741
Psychiatry	198	219	234	177	152	182	207	72
Pulmonary disease	13	4	9	9	6	9	8	9
Radiology	132	140	84	85	85	115	124	100
Surgery	27	41	21	11	11	18	29	6
Clinical medicine, nec	1,700	1,743	1,679	1,293	1,668	1,309	1,459	1,383
Other health ^b	66,552	71,186	65,070	64,867	62,835	48,926	38,833	30,030
Dental sciences	781	686	625	699	679	751	744	746
Nursing	28,731	32,539	28,842	28,910	27,746	19,462	10,932	6,505
Pharmaceutical sciences	3,446	3,532	2,670	2,722	2,211	2,298	2,227	2,150
Speech pathology/audiology	13,856	13,850	14,974	14,980	14,755	13,590	13,531	13,357
Veterinary sciences	1,241	1,309	1,293	1,510	1,597	1,362	1,415	1,187
Other health, nec	18,497	19,270	16,666	16,046	15,847	11,463	9,984	6,085

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.