

TABLE 22. Female graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race: 2011

Field	U.S. citizens and permanent residents <sup>a</sup>										
	Total	Not Hispanic or Latino							More than one race <sup>b</sup>	Unknown ethnicity/race	Temporary visa holders
		Hispanic or Latino	American Indian or Alaska Native	Asian <sup>b</sup>	Black or African American	Native Hawaiian or Other Pacific Islander <sup>b</sup>	White				
All surveyed fields	291,550	19,081	1,559	17,993	25,025	768	143,442	3,745	16,757	63,180	
Science and engineering	242,732	15,924	1,297	14,896	19,760	520	114,603	3,126	13,634	58,972	
Science	208,991	14,454	1,215	12,169	18,543	475	104,427	2,825	12,229	42,654	
Agricultural sciences	8,026	450	58	215	288	18	4,923	77	309	1,688	
Biological sciences	42,833	2,566	198	3,758	2,422	121	21,574	497	2,053	9,644	
Anatomy	380	22	2	24	17	2	219	2	13	79	
Biochemistry	2,550	150	14	242	107	16	988	14	101	918	
Biology	9,474	668	42	646	581	19	4,872	143	487	2,016	
Biometry/epidemiology	3,927	183	12	531	267	14	1,737	52	186	945	
Biophysics	366	9	5	43	10	1	150	3	13	132	
Botany	985	43	9	51	14	8	448	21	35	356	
Cell biology	3,743	226	16	354	147	9	1,662	33	186	1,110	
Ecology	958	46	4	34	13	2	669	15	70	105	
Entomology/parasitology	539	28	3	17	5	0	337	11	21	117	
Genetics	1,401	67	11	104	56	2	768	11	47	335	
Microbiology/immunology/virology	2,905	202	19	273	155	1	1,545	31	105	574	
Nutrition	4,400	245	14	350	227	5	2,672	38	234	615	
Pathology	801	40	1	63	63	1	437	5	35	156	
Pharmacology	1,709	77	5	158	148	5	758	12	76	470	
Physiology	1,490	81	6	142	96	6	732	15	70	342	
Zoology	634	16	2	26	8	1	457	10	35	79	
Biological sciences, nec	6,571	463	33	700	508	29	3,123	81	339	1,295	
Communication <sup>c</sup>	7,041	452	40	259	711	9	4,018	103	319	1,130	
Computer sciences	12,607	371	30	974	780	9	3,041	85	509	6,808	
Earth, atmospheric, and ocean sciences	7,175	355	52	205	153	10	4,675	85	388	1,252	
Atmospheric sciences	477	29	0	15	15	1	261	3	16	137	
Geosciences	3,461	156	42	76	56	3	2,257	40	177	654	
Oceanography	1,494	79	4	45	17	2	1,036	21	64	226	
Earth/atmospheric/ocean sciences, nec	1,743	91	6	69	65	4	1,121	21	131	235	
Family and consumer sciences/human sciences <sup>c</sup>	3,721	207	20	121	586	7	2,212	37	180	351	
Mathematical sciences	8,360	286	14	655	306	6	3,232	64	365	3,432	
Mathematics/applied mathematics	5,899	242	12	408	259	5	2,631	53	296	1,993	
Statistics	2,461	44	2	247	47	1	601	11	69	1,439	
Multidisciplinary/interdisciplinary studies <sup>c</sup>	3,431	273	25	151	304	8	1,839	50	306	475	
Neuroscience <sup>c</sup>	2,199	158	11	213	82	5	1,249	32	111	338	
Physical sciences	13,112	525	36	791	515	17	5,402	119	485	5,222	
Astronomy	423	7	3	24	1	1	244	3	24	116	



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Hematology	1	0	0	0	0	0	0	0	0	0	1
Neurology <sup>c</sup>	107	4	0	12	6	1	64	1	2	17	
Obstetrics/gynecology	72	6	0	9	2	0	42	0	2	11	
Oncology/cancer research	147	5	0	10	8	0	79	3	4	38	
Ophthalmology	0	0	0	0	0	0	0	0	0	0	
Otorhinolaryngology	1	0	0	0	1	0	0	0	0	0	
Pediatrics	86	3	1	7	1	0	54	2	1	17	
Preventive medicine/community health	16,741	1,261	114	1,489	3,127	54	7,824	263	1,231	1,378	
Psychiatry	72	0	0	4	30	0	34	0	0	4	
Pulmonary disease	9	0	0	1	0	0	7	0	0	1	
Radiology	100	3	0	10	2	0	54	0	1	30	
Surgery	6	0	0	0	1	0	3	0	1	1	
Clinical medicine, nec	1,383	77	10	152	130	3	754	10	71	176	
Other health <sup>d</sup>	30,030	1,796	137	1,399	1,947	189	19,898	340	1,808	2,516	
Dental sciences	746	42	1	92	20	5	304	6	37	239	
Nursing	6,505	369	52	372	690	64	4,011	96	593	258	
Pharmaceutical sciences	2,150	74	7	200	139	1	757	10	50	912	
Speech pathology/audiology	13,357	851	42	396	566	98	10,248	138	696	322	
Veterinary sciences	1,187	38	4	40	52	2	689	10	58	294	
Other health, nec	6,085	422	31	299	480	19	3,889	80	374	491	

nec = not elsewhere classified.

<sup>a</sup> Ethnicity and race data available only for U.S. citizens and permanent residents.

<sup>b</sup> Reporting of ethnicity and race in 2008–11 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included a category for two or more races (see <http://nces.ed.gov/ipeds/reic/resource.asp>) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory beginning in 2010 and may have contributed to a significant increase in reporting of "Not Hispanic or Latino, More than one race."

<sup>c</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>d</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, 2011.