

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race: 2005–11

Field, citizenship, ethnicity, and race	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
All surveyed fields	286,935	297,825	299,671	307,490	311,179	303,120	297,171	291,550
U.S. citizens and permanent residents ^b	237,029	246,041	245,526	252,309	252,329	242,387	235,235	228,370
Hispanic or Latino	17,035	17,829	18,106	18,527	18,379	18,140	18,364	19,081
Not Hispanic or Latino								
American Indian or Alaska Native	1,488	1,593	1,651	1,713	1,946	1,749	1,647	1,559
Asian ^c	18,346	18,663	18,631	18,885	18,536	18,518	18,014	17,993
Black or African American	22,429	23,416	23,274	24,013	24,595	24,539	24,844	25,025
Native Hawaiian or Other Pacific Islander ^c	766	697	856	863	799	752	754	768
White	156,051	162,059	160,001	164,684	163,522	155,553	149,137	143,442
More than one race ^c	351	370	372	375	900	1,535	3,197	3,745
Unknown ethnicity/race	20,563	21,414	22,635	23,249	23,652	21,601	19,278	16,757
Temporary visa holders	49,906	51,784	54,145	55,181	58,850	60,733	61,936	63,180
Science and engineering	206,308	211,106	218,295	227,273	231,997	237,749	240,481	242,732
U.S. citizens and permanent residents ^b	160,613	163,820	168,644	176,449	177,792	181,700	182,995	183,760
Hispanic or Latino	12,468	12,839	13,361	13,848	14,025	14,235	14,813	15,924
Not Hispanic or Latino								
American Indian or Alaska Native	1,050	1,133	1,167	1,235	1,431	1,370	1,351	1,297
Asian ^c	13,344	13,289	13,754	14,118	13,954	14,504	14,386	14,896
Black or African American	15,623	15,884	16,371	17,162	17,706	18,519	19,160	19,760
Native Hawaiian or Other Pacific Islander ^c	541	477	622	644	573	578	554	520
White	102,589	104,515	106,672	111,932	112,046	114,287	114,557	114,603
More than one race ^c	280	290	275	281	709	1,267	2,578	3,126
Unknown ethnicity/race	14,718	15,393	16,422	17,229	17,348	16,940	15,596	13,634
Temporary visa holders	45,695	47,286	49,651	50,824	54,205	56,049	57,486	58,972
Science	179,413	183,162	188,321	196,801	200,460	204,431	206,028	208,991
U.S. citizens and permanent residents ^b	145,333	148,354	152,294	159,749	160,796	163,806	164,531	166,337
Hispanic or Latino	11,371	11,644	12,119	12,592	12,775	12,884	13,352	14,454
Not Hispanic or Latino								
American Indian or Alaska Native	983	1,061	1,105	1,170	1,334	1,292	1,266	1,215
Asian ^c	10,389	10,736	11,164	11,484	11,379	11,863	11,648	12,169
Black or African American	14,523	14,755	15,160	15,908	16,423	17,204	17,860	18,543
Native Hawaiian or Other Pacific Islander ^c	495	434	546	568	525	536	507	475
White	93,902	95,514	97,161	102,213	101,981	103,682	103,553	104,427
More than one race ^c	266	270	261	266	663	1,169	2,332	2,825
Unknown ethnicity/race	13,404	13,940	14,778	15,548	15,716	15,176	14,013	12,229
Temporary visa holders	34,080	34,808	36,027	37,052	39,664	40,625	41,497	42,654
Agricultural sciences	6,202	6,299	6,444	6,627	6,891	7,485	7,819	8,026
U.S. citizens and permanent residents ^b	5,112	5,157	5,258	5,357	5,488	5,965	6,253	6,338
Hispanic or Latino	263	277	301	316	322	373	412	450
Not Hispanic or Latino								
American Indian or Alaska Native	45	46	48	48	77	77	87	58
Asian ^c	144	168	171	176	214	204	199	215
Black or African American	245	301	283	282	289	244	277	288
Native Hawaiian or Other Pacific Islander ^c	14	5	7	7	15	19	20	18
White	4,146	4,070	4,136	4,220	4,184	4,602	4,835	4,923
More than one race ^c	9	14	7	7	34	46	71	77
Unknown ethnicity/race	246	276	305	301	353	400	352	309
Temporary visa holders	1,090	1,142	1,186	1,270	1,403	1,520	1,566	1,688
Biological sciences	38,521	39,369	40,651	40,754	41,334	41,818	42,571	42,833
U.S. citizens and permanent residents ^b	29,603	30,304	31,494	31,725	31,762	32,283	33,041	33,189
Hispanic or Latino	1,826	1,926	2,074	2,070	2,093	2,254	2,447	2,566
Not Hispanic or Latino								
American Indian or Alaska Native	164	182	166	167	187	194	213	198
Asian ^c	2,978	3,216	3,350	3,387	3,264	3,438	3,546	3,758
Black or African American	2,063	2,123	2,261	2,271	2,301	2,456	2,474	2,422
Native Hawaiian or Other Pacific Islander ^c	148	139	157	166	162	170	129	121

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race: 2005–11

Field, citizenship, ethnicity, and race	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
White	20,415	20,772	21,115	21,136	21,173	21,086	21,473	21,574
More than one race ^c	60	44	39	42	103	155	395	497
Unknown ethnicity/race	1,949	1,902	2,332	2,486	2,479	2,530	2,364	2,053
Temporary visa holders	8,918	9,065	9,157	9,029	9,572	9,535	9,530	9,644
Communication ^a	ne	ne	ne	4,647	5,381	6,029	6,353	7,041
U.S. citizens and permanent residents ^b	ne	ne	ne	3,927	4,517	4,991	5,307	5,911
Hispanic or Latino	ne	ne	ne	270	302	295	367	452
Not Hispanic or Latino								
American Indian or Alaska Native	ne	ne	ne	19	35	36	45	40
Asian ^c	ne	ne	ne	162	191	217	221	259
Black or African American	ne	ne	ne	375	436	459	541	711
Native Hawaiian or Other Pacific Islander ^c	ne	ne	ne	3	4	20	12	9
White	ne	ne	ne	2,733	3,060	3,490	3,662	4,018
More than one race ^c	ne	ne	ne	1	10	57	81	103
Unknown ethnicity/race	ne	ne	ne	364	479	417	378	319
Temporary visa holders	ne	ne	ne	720	864	1,038	1,046	1,130
Computer sciences	12,045	12,062	12,206	12,017	12,545	13,053	12,807	12,607
U.S. citizens and permanent residents ^b	6,776	6,741	6,169	6,020	6,015	6,300	6,048	5,799
Hispanic or Latino	272	271	286	282	287	293	334	371
Not Hispanic or Latino								
American Indian or Alaska Native	33	27	16	15	34	28	31	30
Asian ^c	1,386	1,283	1,145	1,109	1,087	1,170	980	974
Black or African American	714	722	704	695	708	799	822	780
Native Hawaiian or Other Pacific Islander ^c	17	17	9	8	16	16	13	9
White	3,621	3,581	3,091	3,012	3,064	3,192	3,133	3,041
More than one race ^c	6	4	1	1	9	34	81	85
Unknown ethnicity/race	727	836	917	898	810	768	654	509
Temporary visa holders	5,269	5,321	6,037	5,997	6,530	6,753	6,759	6,808
Earth, atmospheric, and ocean sciences	6,895	7,004	6,951	6,650	6,621	6,815	7,200	7,175
U.S. citizens and permanent residents ^b	5,796	5,898	5,853	5,593	5,477	5,717	6,015	5,923
Hispanic or Latino	281	311	303	283	280	308	336	355
Not Hispanic or Latino								
American Indian or Alaska Native	31	26	35	31	35	29	46	52
Asian ^c	191	200	210	187	192	212	215	205
Black or African American	152	145	155	151	161	158	158	153
Native Hawaiian or Other Pacific Islander ^c	22	16	10	9	8	16	13	10
White	4,798	4,830	4,748	4,564	4,383	4,491	4,731	4,675
More than one race ^c	10	12	8	8	20	32	83	85
Unknown ethnicity/race	311	358	384	360	398	471	433	388
Temporary visa holders	1,099	1,106	1,098	1,057	1,144	1,098	1,185	1,252
Family and consumer sciences/human sciences ^a	ne	ne	ne	2,327	2,958	3,203	3,461	3,721
U.S. citizens and permanent residents ^b	ne	ne	ne	2,127	2,687	2,925	3,157	3,370
Hispanic or Latino	ne	ne	ne	71	112	129	166	207
Not Hispanic or Latino								
American Indian or Alaska Native	ne	ne	ne	17	14	18	20	20
Asian ^c	ne	ne	ne	79	124	120	123	121
Black or African American	ne	ne	ne	272	345	461	511	586
Native Hawaiian or Other Pacific Islander ^c	ne	ne	ne	0	0	0	1	7
White	ne	ne	ne	1,573	1,866	2,024	2,099	2,212
More than one race ^c	ne	ne	ne	2	5	3	29	37
Unknown ethnicity/race	ne	ne	ne	113	221	170	208	180
Temporary visa holders	ne	ne	ne	200	271	278	304	351

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race: 2005–11

Field, citizenship, ethnicity, and race	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
Mathematical sciences	7,437	7,693	7,781	7,678	7,751	7,979	8,127	8,360
U.S. citizens and permanent residents ^b	4,740	4,857	4,969	4,930	4,723	4,860	4,937	4,928
Hispanic or Latino	215	246	269	268	243	265	277	286
Not Hispanic or Latino								
American Indian or Alaska Native	15	22	14	14	18	16	19	14
Asian ^c	597	611	613	605	571	613	617	655
Black or African American	351	347	331	329	311	321	319	306
Native Hawaiian or Other Pacific Islander ^c	14	18	18	18	28	32	16	6
White	3,178	3,260	3,276	3,252	3,129	3,149	3,125	3,232
More than one race ^c	9	6	4	4	8	57	97	64
Unknown ethnicity/race	361	347	444	440	415	407	467	365
Temporary visa holders	2,697	2,836	2,812	2,748	3,028	3,119	3,190	3,432
Multidisciplinary/interdisciplinary studies ^a	ne	ne	ne	2,560	3,234	3,809	4,493	3,431
U.S. citizens and permanent residents ^b	ne	ne	ne	2,211	2,781	3,283	3,877	2,956
Hispanic or Latino	ne	ne	ne	169	230	253	390	273
Not Hispanic or Latino								
American Indian or Alaska Native	ne	ne	ne	39	41	38	29	25
Asian ^c	ne	ne	ne	115	144	169	200	151
Black or African American	ne	ne	ne	219	264	326	381	304
Native Hawaiian or Other Pacific Islander ^c	ne	ne	ne	8	8	10	8	8
White	ne	ne	ne	1,378	1,711	1,954	2,329	1,839
More than one race ^c	ne	ne	ne	0	3	25	51	50
Unknown ethnicity/race	ne	ne	ne	283	380	508	489	306
Temporary visa holders	ne	ne	ne	349	453	526	616	475
Neuroscience ^a	na	na	na	863	1,097	1,264	1,474	2,199
U.S. citizens and permanent residents ^b	na	na	na	687	897	1,038	1,225	1,861
Hispanic or Latino	na	na	na	49	62	64	97	158
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	4	4	3	4	11
Asian ^c	na	na	na	78	106	112	128	213
Black or African American	na	na	na	35	36	52	51	82
Native Hawaiian or Other Pacific Islander ^c	na	na	na	2	3	1	2	5
White	na	na	na	482	625	714	857	1,249
More than one race ^c	na	na	na	0	2	1	7	32
Unknown ethnicity/race	na	na	na	37	59	91	79	111
Temporary visa holders	na	na	na	176	200	226	249	338
Physical sciences	11,726	12,005	12,253	12,109	12,333	12,691	12,826	13,112
U.S. citizens and permanent residents ^b	7,098	7,370	7,605	7,489	7,448	7,671	7,721	7,890
Hispanic or Latino	490	490	509	503	494	495	506	525
Not Hispanic or Latino								
American Indian or Alaska Native	34	49	49	48	50	48	37	36
Asian ^c	652	711	803	792	726	768	738	791
Black or African American	482	506	501	498	491	493	514	515
Native Hawaiian or Other Pacific Islander ^c	18	20	21	21	18	23	16	17
White	5,002	5,092	5,175	5,085	5,102	5,252	5,267	5,402
More than one race ^c	16	10	13	13	25	32	98	119
Unknown ethnicity/race	404	492	534	529	542	560	545	485
Temporary visa holders	4,628	4,635	4,648	4,620	4,885	5,020	5,105	5,222
Psychology ^c	43,319	43,703	45,594	45,116	44,615	42,536	40,238	40,921
U.S. citizens and permanent residents ^b	41,172	41,648	43,328	42,890	42,389	40,409	37,958	38,664
Hispanic or Latino	3,927	4,030	4,216	4,204	4,271	3,852	3,720	4,102
Not Hispanic or Latino								
American Indian or Alaska Native	241	261	309	309	298	287	266	278
Asian ^c	1,888	1,949	2,147	2,128	2,100	2,000	1,868	1,859
Black or African American	4,291	4,164	4,198	4,165	4,341	4,440	4,478	4,722
Native Hawaiian or Other Pacific Islander ^c	102	88	95	98	79	66	92	90

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race: 2005–11

Field, citizenship, ethnicity, and race	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
White	25,614	26,132	27,588	27,237	26,497	25,646	23,716	23,834
More than one race ^c	56	52	55	55	137	303	506	609
Unknown ethnicity/race	5,053	4,972	4,720	4,694	4,666	3,815	3,312	3,170
Temporary visa holders	2,147	2,055	2,266	2,226	2,226	2,127	2,280	2,257
Social sciences	53,268	55,027	56,441	55,453	55,700	57,749	58,659	59,565
U.S. citizens and permanent residents ^b	45,036	46,379	47,618	46,793	46,612	48,364	48,992	49,508
Hispanic or Latino	4,097	4,093	4,161	4,107	4,079	4,303	4,300	4,709
Not Hispanic or Latino								
American Indian or Alaska Native	420	448	468	459	541	518	469	453
Asian ^c	2,553	2,598	2,725	2,666	2,660	2,840	2,813	2,968
Black or African American	6,225	6,447	6,727	6,616	6,740	6,995	7,334	7,674
Native Hawaiian or Other Pacific Islander ^c	160	131	229	228	184	163	185	175
White	27,128	27,777	28,032	27,541	27,187	28,082	28,326	28,428
More than one race ^c	100	128	134	133	307	424	833	1,067
Unknown ethnicity/race	4,353	4,757	5,142	5,043	4,914	5,039	4,732	4,034
Temporary visa holders	8,232	8,648	8,823	8,660	9,088	9,385	9,667	10,057
Engineering	26,895	27,944	29,974	30,472	31,537	33,318	34,453	33,741
U.S. citizens and permanent residents ^b	15,280	15,466	16,350	16,700	16,996	17,894	18,464	17,423
Hispanic or Latino	1,097	1,195	1,242	1,256	1,250	1,351	1,461	1,470
Not Hispanic or Latino								
American Indian or Alaska Native	67	72	62	65	97	78	85	82
Asian ^c	2,955	2,553	2,590	2,634	2,575	2,641	2,738	2,727
Black or African American	1,100	1,129	1,211	1,254	1,283	1,315	1,300	1,217
Native Hawaiian or Other Pacific Islander ^c	46	43	76	76	48	42	47	45
White	8,687	9,001	9,511	9,719	10,065	10,605	11,004	10,176
More than one race ^c	14	20	14	15	46	98	246	301
Unknown ethnicity/race	1,314	1,453	1,644	1,681	1,632	1,764	1,583	1,405
Temporary visa holders	11,615	12,478	13,624	13,772	14,541	15,424	15,989	16,318
Aerospace engineering	607	709	700	700	722	734	784	782
U.S. citizens and permanent residents ^b	400	493	486	486	487	497	551	566
Hispanic or Latino	16	24	22	22	25	25	36	48
Not Hispanic or Latino								
American Indian or Alaska Native	2	1	4	4	7	5	4	4
Asian ^c	62	61	62	62	66	57	56	69
Black or African American	15	18	21	21	24	20	17	15
Native Hawaiian or Other Pacific Islander ^c	0	1	0	0	0	1	2	1
White	272	326	338	338	296	332	375	376
More than one race ^c	0	0	1	1	1	5	12	10
Unknown ethnicity/race	33	62	38	38	68	52	49	43
Temporary visa holders	207	216	214	214	235	237	233	216
Agricultural engineering	323	350	366	366	398	437	509	618
U.S. citizens and permanent residents ^b	177	183	172	172	166	198	206	248
Hispanic or Latino	10	12	5	5	6	9	10	14
Not Hispanic or Latino								
American Indian or Alaska Native	1	3	1	1	1	1	3	1
Asian ^c	13	10	12	12	10	11	16	21
Black or African American	12	13	10	10	9	12	16	23
Native Hawaiian or Other Pacific Islander ^c	1	1	2	2	0	0	0	1
White	136	140	130	130	132	152	145	173
More than one race ^c	0	1	2	2	0	1	4	6
Unknown ethnicity/race	4	3	10	10	8	12	12	9
Temporary visa holders	146	167	194	194	232	239	303	370

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Field, citizenship, ethnicity, and race	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
Architecture ^a	na	na	na	1,974	2,612	2,997	3,044	1,443
U.S. citizens and permanent residents ^b	na	na	na	1,567	2,085	2,368	2,396	1,050
Hispanic or Latino	na	na	na	86	170	191	182	103
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	3	26	13	15	7
Asian ^c	na	na	na	118	157	176	206	106
Black or African American	na	na	na	94	126	123	121	58
Native Hawaiian or Other Pacific Islander ^c	na	na	na	2	4	1	3	1
White	na	na	na	1,117	1,403	1,625	1,641	652
More than one race ^c	na	na	na	1	7	11	43	30
Unknown ethnicity/race	na	na	na	146	192	228	185	93
Temporary visa holders	na	na	na	407	527	629	648	393
Biomedical engineering	2,297	2,486	2,610	2,621	2,761	2,979	3,133	3,459
U.S. citizens and permanent residents ^b	1,556	1,702	1,775	1,784	1,805	1,983	2,102	2,331
Hispanic or Latino	75	97	86	86	91	110	120	135
Not Hispanic or Latino								
American Indian or Alaska Native	6	5	5	5	7	7	7	5
Asian ^c	337	366	394	394	371	422	437	553
Black or African American	103	107	117	117	118	139	129	129
Native Hawaiian or Other Pacific Islander ^c	7	7	7	7	10	6	5	4
White	911	991	991	1,000	1,058	1,141	1,227	1,320
More than one race ^c	0	5	3	3	5	19	28	44
Unknown ethnicity/race	117	124	172	172	145	139	149	141
Temporary visa holders	741	784	835	837	956	996	1,031	1,128
Chemical engineering	2,079	2,159	2,235	2,266	2,409	2,616	2,722	2,850
U.S. citizens and permanent residents ^b	1,109	1,117	1,105	1,129	1,143	1,206	1,230	1,279
Hispanic or Latino	110	123	107	106	90	86	104	108
Not Hispanic or Latino								
American Indian or Alaska Native	7	5	2	2	3	2	2	4
Asian ^c	201	198	190	195	203	215	219	221
Black or African American	60	56	50	52	51	66	65	70
Native Hawaiian or Other Pacific Islander ^c	5	8	9	9	2	1	4	4
White	664	671	675	692	716	760	753	778
More than one race ^c	1	2	1	1	8	7	10	20
Unknown ethnicity/race	61	54	71	72	70	69	73	74
Temporary visa holders	970	1,042	1,130	1,137	1,266	1,410	1,492	1,571
Civil engineering ^a	5,405	5,423	6,348	4,736	4,765	5,301	5,571	5,589
U.S. citizens and permanent residents ^b	3,598	3,659	4,402	3,117	3,069	3,423	3,554	3,457
Hispanic or Latino	293	331	404	327	263	302	370	377
Not Hispanic or Latino								
American Indian or Alaska Native	14	19	16	15	16	18	22	26
Asian ^c	391	361	395	303	325	382	404	377
Black or African American	161	181	231	178	168	205	206	167
Native Hawaiian or Other Pacific Islander ^c	9	8	11	9	11	8	14	16
White	2,467	2,460	2,961	2,021	2,019	2,155	2,235	2,208
More than one race ^c	3	3	2	2	4	15	59	72
Unknown ethnicity/race	260	296	382	262	263	338	244	214
Temporary visa holders	1,807	1,764	1,946	1,619	1,696	1,878	2,017	2,132
Electrical engineering	6,788	7,026	7,367	7,439	7,340	7,174	7,193	7,430
U.S. citizens and permanent residents ^b	2,546	2,315	2,182	2,241	2,119	2,014	2,007	2,059
Hispanic or Latino	208	179	161	164	159	153	151	164
Not Hispanic or Latino								
American Indian or Alaska Native	7	4	2	3	4	6	4	8
Asian ^c	925	709	597	615	568	548	548	558
Black or African American	189	180	180	183	172	172	174	190
Native Hawaiian or Other Pacific Islander ^c	5	5	9	9	3	8	6	5

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Field, citizenship, ethnicity, and race	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
White	907	906	910	939	872	850	851	862
More than one race ^c	6	4	2	2	6	8	21	27
Unknown ethnicity/race	299	328	321	326	335	269	252	245
Temporary visa holders	4,242	4,711	5,185	5,198	5,221	5,160	5,186	5,371
Engineering science	419	451	412	409	471	478	438	434
U.S. citizens and permanent residents ^b	235	250	211	208	244	237	209	206
Hispanic or Latino	7	3	5	6	12	16	12	13
Not Hispanic or Latino								
American Indian or Alaska Native	4	3	3	3	3	1	0	0
Asian ^c	41	45	41	37	31	27	31	23
Black or African American	10	11	7	7	12	12	9	10
Native Hawaiian or Other Pacific Islander ^c	0	0	2	2	1	0	0	1
White	152	168	134	135	163	148	132	122
More than one race ^c	1	1	0	0	1	0	2	6
Unknown ethnicity/race	20	19	19	18	21	33	23	31
Temporary visa holders	184	201	201	201	227	241	229	228
Industrial engineering	3,296	3,466	3,520	3,544	3,714	3,800	3,684	3,610
U.S. citizens and permanent residents ^b	2,228	2,326	2,288	2,291	2,253	2,182	2,029	1,967
Hispanic or Latino	187	214	210	212	201	221	190	173
Not Hispanic or Latino								
American Indian or Alaska Native	16	17	14	15	18	14	8	9
Asian ^c	289	292	305	311	287	254	253	218
Black or African American	282	296	290	291	304	283	231	234
Native Hawaiian or Other Pacific Islander ^c	2	3	2	2	2	5	3	3
White	1,218	1,248	1,180	1,171	1,183	1,087	1,033	1,019
More than one race ^c	1	0	1	1	8	11	16	23
Unknown ethnicity/race	233	256	286	288	250	307	295	288
Temporary visa holders	1,068	1,140	1,232	1,253	1,461	1,618	1,655	1,643
Mechanical engineering	2,408	2,485	2,615	2,614	2,749	2,990	3,186	3,163
U.S. citizens and permanent residents ^b	1,406	1,498	1,597	1,596	1,647	1,709	1,833	1,823
Hispanic or Latino	108	117	129	129	118	121	132	155
Not Hispanic or Latino								
American Indian or Alaska Native	7	4	6	6	6	5	7	7
Asian ^c	202	191	256	256	257	237	251	244
Black or African American	90	75	93	93	99	94	109	109
Native Hawaiian or Other Pacific Islander ^c	8	5	6	6	4	7	5	4
White	862	970	967	966	1,010	1,086	1,160	1,163
More than one race ^c	0	1	0	0	0	11	25	27
Unknown ethnicity/race	129	135	140	140	153	148	144	114
Temporary visa holders	1,002	987	1,018	1,018	1,102	1,281	1,353	1,340
Metallurgical/materials engineering	1,348	1,390	1,460	1,473	1,533	1,589	1,754	1,876
U.S. citizens and permanent residents ^b	688	731	766	769	775	783	880	910
Hispanic or Latino	32	34	38	40	44	42	55	64
Not Hispanic or Latino								
American Indian or Alaska Native	0	4	3	3	3	3	5	3
Asian ^c	91	97	120	119	137	136	143	155
Black or African American	49	61	59	58	59	48	57	47
Native Hawaiian or Other Pacific Islander ^c	5	2	6	6	5	0	0	3
White	482	483	493	495	497	500	570	572
More than one race ^c	1	1	1	1	4	8	11	10
Unknown ethnicity/race	28	49	46	47	26	46	39	56
Temporary visa holders	660	659	694	704	758	806	874	966

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race: 2005–11

Field, citizenship, ethnicity, and race	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
Mining engineering	39	43	51	37	49	55	77	93
U.S. citizens and permanent residents ^b	30	27	29	22	24	31	39	41
Hispanic or Latino	4	0	1	0	0	2	2	3
Not Hispanic or Latino								
American Indian or Alaska Native	0	0	0	0	0	0	0	0
Asian ^c	2	0	0	0	3	2	0	0
Black or African American	0	0	1	0	2	3	4	2
Native Hawaiian or Other Pacific Islander ^c	0	0	0	0	0	0	0	0
White	22	26	26	22	19	23	30	34
More than one race ^c	0	0	0	0	0	0	1	0
Unknown ethnicity/race	2	1	1	0	0	1	2	2
Temporary visa holders	9	16	22	15	25	24	38	52
Nuclear engineering	211	214	226	221	214	198	228	225
U.S. citizens and permanent residents ^b	143	146	157	153	165	148	181	177
Hispanic or Latino	10	7	9	9	10	5	13	9
Not Hispanic or Latino								
American Indian or Alaska Native	0	0	0	0	0	0	0	0
Asian ^c	15	12	7	7	11	14	16	20
Black or African American	13	8	11	11	12	10	9	8
Native Hawaiian or Other Pacific Islander ^c	1	0	0	0	2	0	1	0
White	96	110	113	109	120	108	126	124
More than one race ^c	0	0	0	0	0	0	3	7
Unknown ethnicity/race	8	9	17	17	10	11	13	9
Temporary visa holders	68	68	69	68	49	50	47	48
Petroleum engineering	121	135	183	183	191	209	235	229
U.S. citizens and permanent residents ^b	28	34	37	37	40	45	50	49
Hispanic or Latino	6	7	8	8	4	5	7	6
Not Hispanic or Latino								
American Indian or Alaska Native	0	0	0	0	0	0	0	0
Asian ^c	2	2	2	2	4	3	4	8
Black or African American	4	3	7	7	6	6	6	7
Native Hawaiian or Other Pacific Islander ^c	0	0	0	0	0	0	0	0
White	14	19	18	18	25	30	31	25
More than one race ^c	0	0	0	0	0	0	1	0
Unknown ethnicity/race	2	3	2	2	1	1	1	3
Temporary visa holders	93	101	146	146	151	164	185	180
Engineering, nec	1,554	1,607	1,881	1,889	1,609	1,761	1,895	1,940
U.S. citizens and permanent residents ^b	1,136	985	1,143	1,128	974	1,070	1,197	1,260
Hispanic or Latino	31	47	57	56	57	63	77	98
Not Hispanic or Latino								
American Indian or Alaska Native	3	7	6	5	3	3	8	8
Asian ^c	384	209	209	203	145	157	154	154
Black or African American	112	120	134	132	121	122	147	148
Native Hawaiian or Other Pacific Islander ^c	3	3	22	22	4	5	4	2
White	484	483	575	566	552	608	695	748
More than one race ^c	1	2	1	1	2	2	10	19
Unknown ethnicity/race	118	114	139	143	90	110	102	83
Temporary visa holders	418	622	738	761	635	691	698	680
Health ^{a,d}	80,627	86,719	81,376	80,217	79,182	65,371	56,690	48,818
U.S. citizens and permanent residents ^b	76,416	82,221	76,882	75,860	74,537	60,687	52,240	44,610
Hispanic or Latino	4,567	4,990	4,745	4,679	4,354	3,905	3,551	3,157
Not Hispanic or Latino								
American Indian or Alaska Native	438	460	484	478	515	379	296	262
Asian ^c	5,002	5,374	4,877	4,767	4,582	4,014	3,628	3,097
Black or African American	6,806	7,532	6,903	6,851	6,889	6,020	5,684	5,265
Native Hawaiian or Other Pacific Islander ^c	225	220	234	219	226	174	200	248

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race: 2005–11

Field, citizenship, ethnicity, and race	2005	2006	2007old ^a	2007new ^a	2008	2009	2010	2011
White	53,462	57,544	53,329	52,752	51,476	41,266	34,580	28,839
More than one race ^c	71	80	97	94	191	268	619	619
Unknown ethnicity/race	5,845	6,021	6,213	6,020	6,304	4,661	3,682	3,123
Temporary visa holders	4,211	4,498	4,494	4,357	4,645	4,684	4,450	4,208

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 Ethnicity and race data available only for U.S. citizens and permanent residents.

^c 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."

^d 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.