

ANNUAL SURVEY

- 43% (3,408) of masters degrees represented were awarded in mathematics
 - ◊ 2.7% (932) of these were awarded by Masters departments
 - ◊ 29% (268) of these were awarded to women.
- 5% (423) of masters degrees were in mathematics education.
 - ◊ 54% (227) of these were awarded by Masters departments
 - ◊ Women earned 66% of all mathematics education degrees
- 9% (679) of masters degrees in mathematical sciences departments were in computer science.
 - ◊ 94% (635) of CS masters were awarded by the Masters Group; 33% of these went to women.
 - ◊ Masters in CS conferred by the Masters Group of departments more than doubled to 635 from 2014-15, but most other groups saw decreases.

Figure MD.2: Master’s Degrees Awarded by Gender and Major
(Degrees awarded between July 1, 2015 and June 30, 2016)

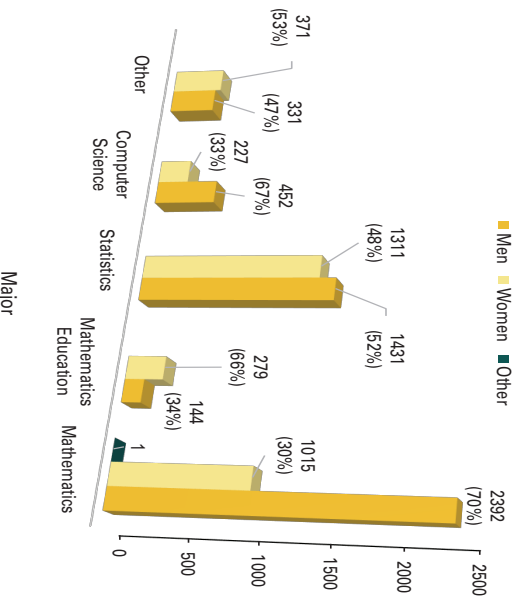
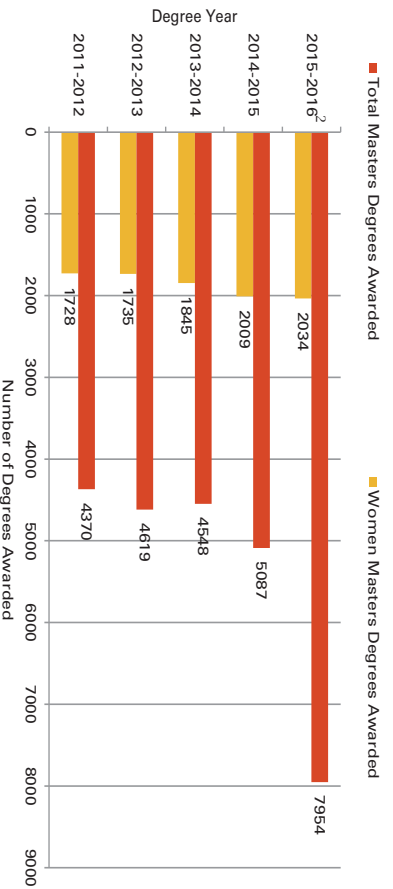


Figure MD.3: Master’s Degrees Awarded¹, 2011-2016
All Mathematics Departments



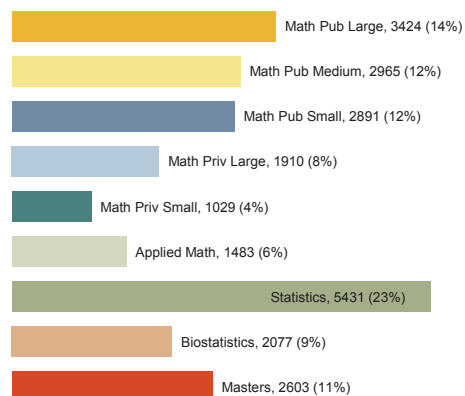
¹ Degrees awarded between July 1 and June 30.

² Due to the finer grained detail being collected on majors, it's possible departments have reported degrees not reported in the past.

Graduate Students

In fall 2016, the total number of full-time graduate students is estimated at 23,813, with 16,305 in Math (essentially unchanged from 16,136 in fall 2015) and 7,508 in Stats. The total number of full-time graduate students in Doctoral Math departments is 13,702 (from 13,431). In Doctoral Math departments, counts of full-time and first-year graduate students who are US citizens or permanent residents have remained essentially unchanged at 7,131 and 1,779, respectively. For the Masters Group, full-time graduate students decreased 4% to 2,603, the number of US citizens and permanent residents is 1,762 (down from 1,930), and the number of first-year students is 1,155 (down from 1,203). Stats reported full-time first-year graduate students at 2,543, up from 2,538. Women account for 36% (8,684) of all full-time graduate students.

Figure GS.1: Graduate Students by Department Grouping, Fall 2016



Total: 23,813

Features of full-time graduate student data:

- Full-time graduate students and full-time women graduate students increased in all groups except Math Public Medium and Masters.
- First-year graduate students remained relatively unchanged at 7,402 from 7,387; only Math Public Large, Math Public Medium, Math Private Large, and the Biostatistics Groups estimates increased by 5%, 1%, 24%, and 2%, respectively.
- US citizen and permanent resident graduate students decreased 2% from 11,823 to 11,587, while most groups reported decreases of less than 5%, the Masters Group decreased 9%, and the Math Public Large, Math Public Small, and Applied Math Groups increased by 1%, 5%, and 6%, respectively.

- Underrepresented minorities accounted for 13% of US citizen and permanent resident graduate students and 5% of first-year graduate students. Women compose 35% and 39%, respectively, of these categories.
- Math Public Small, Math Private Large, Applied Math, and the Statistics Groups all reported increase in underrepresented minorities, while Math Public Large, Math Public Medium, Math Private Small and Biostatistics all reported decreases of 32%, 22%, 39%, and 6%, respectively.
- Non-US citizen full-time graduate students increased in all groups except Applied Math which remained relatively unchanged and full-time women graduate student counts increased in all groups except Masters which decreased 6%.

Features of part-time graduate student data:

- Estimates of total part-time graduate student counts increased in the Math Public Small, Math Private Small, Biostatistics, and Masters Groups, while Math Public Large, Math Public Medium, Math Private Large, Applied Math, and Statistics estimates decreased by 22%, 12%, 21%, 8%, and 44%, respectively.
- Part-time US citizen and permanent resident graduate student counts decreased slightly to 3,381 and non-US citizen counts decreased 8% to 665.
- Underrepresented minorities account for 14% of part-time US citizen and permanent resident graduate students, down from 16% in all 2015).

Table GS.2: Full-Time Graduate Students in All Doctoral Math Groups Combined by Gender and Citizenship, Fall 2007–2016

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total full-time graduate students	10937	10883	11286	13048	12514	12684	12961	13023	13431	13702
Women	3249	3193	3248	3839	3773	3771	3969	3925	4039	4146
% Women	30%	29%	29%	29%	30%	30%	31%	30%	30%	30%
% US Citizen & Permanent Residents ¹	56%	55%	56%	57%	56%	54%	53%	55%	53%	52%
% Underrepresented minorities ²	9%	9%	9%	11%	8%	8%	9%	11%	15%	13%
Total first-year graduate students	2964	2924	3040	3313	3288	3394	3623	3551	3646	3704
Women	950	870	904	1019	1077	1036	1205	1193	1188	1200
% Women	32%	30%	30%	31%	33%	31%	33%	34%	33%	32%
% US Citizen & Permanent Residents ¹	56%	56%	55%	51%	50%	54%	53%	55%	53%	52%
% Underrepresented minorities ²	10%	10%	9%	9%	9%	7%	10%	13%	14%	12%

¹ Starting with 2014, departments were asked to report US citizen and permanent resident counts together; previously permanent residents were included in the non-US citizen counts. All percentages prior to 2014 have been updated to allow for comparison with previous years' data.

² Prior to 2014 these counts only included US Citizens. Underrepresented minorities includes any person having origins within the categories American Indian or Alaskan Native, Black or African American, Hispanic or Latino, and Native Hawaiian or Other Pacific Islander.

Annual Survey of the Mathematical Sciences

www.ams.org/annual-survey

Table GS.1: Graduate Students, Fall 2016

	Math Public Large	Math Public Medium	Math Public Small	Math Private Large	Math Private Small	Applied Math	All Doctoral Math Combined	Masters	All Math Combined	Statistics	Biostatistics	Statistics & Biostatistics Combined	Total All Groups Combined
Total Graduate Students													
Full-time	3424	2965	2891	1910	1029	1483	13702	2603	16305	5431	2077	7508	23813
<i>Standard error</i>							275	245	368	640	218	676	
First-year graduate students	827	745	765	558	352	457	3704	1155	4859	1877	666	2543	7402
<i>Standard error</i>							105	139	174	325	78	334	
Part-time	137	350	758	169	153	234	1801	1964	3765	352	380	732	4497
<i>Standard error</i>							99	332	347	47	66	81	
Women Graduate Students													
Full-time	888	938	1010	531	301	478	4146	1021	5167	2357	1160	3517	8684
First-year full-time	223	241	282	182	113	159	1200	382	1582	858	411	1269	2851
Part-time	56	149	278	55	58	76	672	957	1629	127	207	4786	1963
US Citizen & Permanent Residents Graduate Students													
Full-time	1876	1763	1715	618	489	670	7131	1762	8893	1732	962	2694	11587
<i>Standard error</i>							148	154	214	117	117	166	
First-year full-time	407	436	471	120	144	201	1779	800	2579	592	297	889	3468
Part-time	115	292	667	98	116	178	1466	1835	3301	245	286	3749	3832
<i>Standard error</i>							91	322	334	38	57	69	

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Table GS.2: Full-Time Graduate Students in All Doctoral Mathematics Departments Combined by Gender and Citizenship, Fall 2007-2016

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total full-time graduate students	10937	10883	11286	13048	12514	12684	12961	13023	13431	13702
Women	3249	3193	3248	3839	3773	3771	3969	3925	4039	4146
% Women	30%	29%	29%	29%	30%	30%	31%	30%	30%	30%
% US Citizen & Permanent Residents ¹	56%	55%	56%	57%	56%	54%	53%	55%	53%	52%
% Underrepresented minorities ²	9%	9%	9%	11%	8%	8%	9%	11%	15%	13%
Total first-year graduate students	2964	2924	3040	3313	3288	3394	3623	3551	3646	3704
Women	950	870	904	1019	1077	1036	1205	1193	1188	1200
% Women	32%	30%	30%	31%	33%	31%	33%	34%	33%	32%
% US Citizen & Permanent Residents ¹	56%	56%	55%	51%	50%	54%	53%	55%	53%	52%
% Underrepresented minorities ²	10%	10%	9%	9%	9%	7%	10%	13%	14%	12%

¹ Starting with 2014 departments were asked to report US citizen and permanent resident counts together. All percentages prior to 2014 have been updated to allow for comparison with previous years data.

² Prior to 2014 these counts only included US Citizens. Underrepresented minorities includes any person having origins within the categories American Indian or Alaska Native, Black or African American, Hispanic or Latino, and Native Hawaiian or Other Pacific Islander.

Table GS.3: Citizenship of Graduate Students by Department Grouping, Fall 2016

	Math Public Large	Math Public Medium	Math Public Small	Math Private Large	Math Private Small	Applied Math	All Doctoral Math Combined	Masters	All Math Combined	Statistics	Biostatistics	Statistics & Biostatistics Combined	Total All Groups Combined
Total Full-time Graduate Students	3424	2965	2891	1910	1029	1483	13702	2603	16305	5431	2077	7508	23813
<i>Standard error</i>							275	245	368	640	218	676	
US Citizen & Permanent Residents ¹	1876	1763	1715	618	489	670	7131	1762	8893	1732	962	2694	11587
Non-US Citizen	1548	1202	1176	1292	540	813	6571	841	7412	3699	1115	4814	12226
Total First-year Graduate Students	827	745	765	558	352	457	3704	1155	4859	1877	666	2543	7402
<i>Standard error</i>							105	139	174	325	78	334	
US Citizen & Permanent Residents ¹	407	436	471	120	144	201	1779	800	2579	592	297	889	3468
Non-US Citizen	420	309	294	438	208	256	1925	355	2280	1285	369	1654	3934
Total Part-time Graduate Students	137	350	758	169	153	234	1801	1964	3765	352	380	732	4497
<i>Standard error</i>							99	332	347	47	66	81	
US Citizen & Permanent Residents ¹	115	292	667	98	116	178	1466	1835	3301	245	286	531	3832
Non-US Citizen	22	58	91	71	37	56	335	129	464	107	94	201	665