

## REPORTS

### **The Pharmacy Student Population: Applications Received 2014-15, Degrees Conferred 2014-15, Fall 2015 Enrollments**

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#### **INTRODUCTION**

This report presents data that describe the 2014-15 pharmacy application pool, degrees conferred in 2014-15, and fall 2015 pharmacy program enrollments. Data for this report were requested from the 135 U.S. colleges and schools of pharmacy recognized by the Accreditation Council for Pharmacy Education (ACPE) using five separate survey instruments.

There were previously two professional education programs at U.S. colleges and schools of pharmacy: one leading to a baccalaureate in pharmacy, and the other leading to the doctor of pharmacy (Pharm.D.) degree. However, June 30, 2005 marked the official expiration of the ACPE standards to the baccalaureate in pharmacy (B.S. Pharmacy) degree programs in accordance with the transition to the doctor of pharmacy (Pharm.D.) degree as the sole professional degree program in the U.S. Some colleges and schools of pharmacy conferred degrees in the B.S. Pharmacy program until 2004-05.

For the purpose of this report, students in doctor of pharmacy programs are categorized under *Pharm.D.1* when the program leads to a doctor of pharmacy degree conferred as the first professional degree. Students who have already received a baccalaureate in pharmacy and are enrolled in a doctor of pharmacy degree program are categorized under *Pharm.D.2*.

The following definitions refer to the race/ethnicity groups as used in this report. *White* refers to U.S. citizens or permanent residents having origins in any of the original peoples of Europe, the Middle East, or North Africa. *Black or African American* refers to U.S. citizens or permanent residents having origins in any of the black racial groups of Africa. *Hispanic or Latino* refers to U.S. citizens or permanent residents of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race. *Asian* refers to U.S. citizens or permanent residents having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian Subcontinent, including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam. *Native Hawaiian*

*or Other Pacific Islander* refers to U.S. citizens or permanent residents having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands. Prior to 2011, these students were included in the *Asian* category. *American Indian or Alaska Native* refers to U.S. citizens or permanent residents having origins in any of the original peoples of North and South America (including Central America) who maintains cultural identification through tribal affiliation or community attachment. *Two or More Races* refers to U.S. citizens or permanent residents who are not Hispanic or Latino and identify themselves by more than one race. *Unknown* refers to U.S. citizens or permanent residents whose race and ethnicity are not known. Prior to 2011, this category was labeled *Other/Unknown* and students that were of two or more races were included in this category. Finally, *International/Foreign* refers to citizens of a foreign country/ permanent residents of a country other than the U.S.

#### **2014-15 APPLICATION POOL**

The 2014-15 Application Pool Survey was conducted online in October 2015 with an announcement and request for participation sent to the survey coordinator at each of the 135 colleges and schools of pharmacy in the U.S. recognized by ACPE. After follow-up correspondence, 133 colleges and schools (98.5 percent) submitted the requested information. Included in the application pool are students who applied for admission and submitted all required application materials between September 2014 and August 2015 for the entering class of fall 2015. Numbers reported represent the number of applications, not applicants, and may represent multiple applications submitted by individual applicants.

During the period September 2014 through August 2015 the reporting institutions received 76,525 applications for admission.

In 2014-15, females submitted 59.9 percent of the applications to pharmacy colleges and schools; males submitted 39.2 percent; gender unknown/not reported submitted 0.8 percent. White Americans submitted 36.7 percent of the applications, Asian Americans submitted 32.4 percent of the applications, and underrepresented

Table 1. Distribution of 2014-15 Applications by Gender and Race/Ethnicity of Applicant<sup>a</sup>

Race/Ethnicity	Male	Female	Gender Not Specified	Total (%)
White <sup>b</sup>	11 143	16 918	43	28 104 (36.7)
Black or African American <sup>b</sup>	3769	5021	8	8798 (11.5)
Hispanic or Latino <sup>b</sup>	1510	2375	24	3909 (5.1)
Asian <sup>b</sup>	9662	15 029	125	24 816 (32.4)
Native Hawaiian or Other Pacific Islander <sup>b</sup>	34	90	0	124 (0.2)
American Indian or Alaska Native <sup>b</sup>	52	115	0	167 (0.2)
Two or more races <sup>b</sup>	1283	2138	2	3423 (4.5)
Unknown <sup>b</sup>	1498	2278	399	4175 (5.5)
International/Foreign <sup>c</sup>	1072	1907	30	3009 (3.9)
Total	30 023	45 871	631	76 525

<sup>a</sup>Represents data, some incomplete, submitted by 133 schools

<sup>b</sup>U.S. citizen or permanent resident

<sup>c</sup>Citizens of a foreign country/permanent residents of a country other than the U.S

minorities submitted 17.0 percent of the applications (Black or African American, 11.5 percent; Hispanic or Latino, 5.1 percent; Native Hawaiian or Other Pacific Islander, 0.2 percent; American Indian or Alaska Native, 0.2 percent). Applications submitted from students that identified as two or more races totaled 4.5 percent and 3.9 percent of the applications were submitted by foreign, nonpermanent residents [Table 1]. For the eleventh consecutive year, colleges and schools of pharmacy received more applications from out-of-state residents (54.2 percent) compared to 45.8 percent from in-state residents. The higher percentage of out-of-state applicants can be attributed to the ease of applying to colleges and schools of pharmacy in different states through PharmCAS.

Over 72 percent (72.7 percent) of the applications to colleges and schools of pharmacy were submitted by individuals who had 3 or more years of postsecondary experience (3 or more years of college/no degree, 25.0 percent; baccalaureate, 45.4 percent; master's, 1.9 percent; doctoral degree, 0.4 percent), [Table 2].

## 2014-15 DEGREES CONFERRED

The 2014-15 Undergraduate and Professional Pharmacy Degrees Conferred and Graduate Pharmacy Degrees

Conferred surveys were conducted online in October 2015, with an announcement and request for participation sent to the survey coordinator at each of the 135 colleges and schools of pharmacy in the U.S. recognized by ACPE. Submission of the data was requested by December 2015. After follow-up correspondence, 132 colleges and schools (97.8 percent) submitted the Undergraduate and Professional Degrees Conferred Survey and 133 institutions (98.5 percent) completed the Graduate Degrees Conferred Survey.

### Professional Degrees Conferred

Numbers of degrees conferred by U.S. colleges and schools of pharmacy from 1965 to 2015 are presented in Table 3.

### First Professional Degrees Conferred

In 2014-15 123 colleges and schools of pharmacy reported conferring the doctor of pharmacy as a first professional degree (Pharm.D.1). Graduating Pharm.D.1 class sizes ranged from 31 students to 307 students (median, 98 students). Nine of the 132 colleges and schools did not confer degrees in 2014-15. These schools were new programs whose students had not yet progressed through the entire curriculum (California Health Sciences,

Table 2. Distribution of 2014-15 Applications to First Professional Degree Programs by Gender and Previous Postsecondary Experience of Applicant<sup>a</sup>

Postsecondary Experience	Male	Female	Gender Not Specified	Total (%)
0 Years of College	3973	5945	711	10 629 (13.9)
1-2 Years of College/No Degree	1723	2954	117	4794 (6.3)
Associate's Degree	2099	3056	257	5412 (7.1)
3 or More Years of College/No Degree	7384	11 389	297	19 070 (25.0)
Baccalaureate Degree	13 612	20 278	735	34 625 (45.4)
Master's Degree	670	724	19	1413 (1.9)
Doctoral Degree	137	145	8	290 (0.4)

<sup>a</sup>Represents data, some incomplete, submitted by 133 schools

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Table 3. Number of Pharmacy Degrees Conferred 1965-2015 by Degree and Gender

Year	BS Pharmacy <sup>a</sup>			PharmD1 <sup>b</sup>			First Professional <sup>c</sup>			PharmD2 <sup>d</sup>			MS			PhD		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
1965	2723	454	3177	162	21	183	2885	475	3360				150	26	176	105	3	108
1966	2970	500	3470	161	28	189	3131	528	3659				152	38	190	108	15	123
1967	3078	493	3571	136	37	173	3214	530	3744				235	32	267	118	8	126
1968	3194	572	3766	183	39	222	3377	611	3988				219	44	263	124	10	134
1969	3384	695	4079	178	31	209	3562	726	4288				235	42	277	136	9	145
1970	3664	853	4517	192	49	241	3856	902	4758				236	54	290	131	10	141
1971	3589	935	4524	160	63	223	3749	998	4747				219	56	275	169	8	177
1972	3498	1072	4570	215	73	288	3713	1145	4858				205	56	261	155	13	168
1973	3674	1259	4933	184	67	251	3858	1326	5184	99	18	117	273	53	326	172	15	187
1974	4104	1559	5663	205	89	294	4309	1648	5957	117	23	140	250	70	320	165	19	184
1975	4607	1792	6399	218	95	313	4825	1887	6712	110	26	136	250	89	339	165	24	189
1976	4940	2165	7105	250	109	359	5190	2274	7464	88	38	126	301	92	393	163	26	189
1977	5108	2541	7649	255	107	362	5363	2648	8011	147	42	189	309	90	399	147	19	166
1978	4715	2715	7430	246	109	355	4961	2824	7785	132	65	197	305	117	422	158	20	178
1979	4260	2835	7095	278	183	461	4538	3018	7556	139	51	190	301	134	435	125	28	153
1980	4154	2831	6985	267	180	447	4421	3011	7432	120	60	180	315	150	465	155	34	189
1981	3753	3116	6869	265	189	454	4018	3305	7323	109	101	210	271	163	434	152	28	180
1982	3417	3031	6448	217	194	411	3634	3225	6859	119	88	207	293	165	458	146	36	182
1983	2994	2925	5919	240	215	455	3234	3140	6374	136	135	271	277	149	426	154	54	208
1984	2826	2720	5546	188	229	417	3014	2949	5963	169	162	331	253	141	394	174	53	227
1985	2362	2785	5147	281	307	588	2643	3092	5735	121	103	224	210	128	338	175	57	232
1986	2370	2820	5190	278	332	610	2648	3152	5800	97	113	210	245	170	415	192	68	260
1987	2235	2929	5164	291	399	690	2526	3328	5854	86	126	212	197	151	348	203	80	283
1988	2245	3126	5371	322	491	813	2567	3617	6184	74	85	159	194	159	353	188	75	263
1989	2313	3408	5721	314	525	839	2627	3933	6560	99	123	222	226	165	391	175	112	287
1990	2393	3617	6010	388	558	946	2781	4175	6956	118	184	302	202	183	385	181	92	273
1991	2268	3659	5927	436	759	1195	2704	4418	7122	106	165	271	189	175	364	201	112	313
1992	2261	3636	5897	436	780	1216	2697	4416	7113	124	162	286	148	134	282	195	122	317
1993	2244	3787	6031	460	889	1349	2704	4676	7380	141	255	396	148	153	301	223	125	348
1994	2274	3871	6145	435	924	1359	2709	4795	7504	208	367	575	182	173	355	198	122	320
1995	2291	3927	6218	553	1066	1619	2844	4993	7837	270	434	704	187	205	392	218	132	350
1996	2311	3857	6168	583	1252	1835	2894	5109	8003	264	468	732	217	205	422	186	118	304
1997	2212	3556	5768	691	1313	2004	2903	4869	7772	321	538	859	191	209	400	218	140	358
1998	1818	2950	4768	830	1802	2632	2648	4752	7400	351	663	1014	197	224	421	238	173	411
1999	1528	2348	3876	1081	2184	3265	2609	4532	7141	315	598	913	172	212	384	221	138	359
2000	1115	1841	2956	1432	2872	4304	2547	4713	7260	469	800	1269	154	200	354	174	149	323
2001	754	1160	1914	1730	3356	5086	2484	4516	7000	367	612	979	182	279	461	211	164	375
2002	540	875	1415	2055	4103	6158	2595	4978	7573	276	504	780	178	265	443	216	160	376
2003	303	536	839	2333	4316	6649	2636	4852	7488	338	557	895	199	273	472	210	174	384
2004	153	235	388	2568	5202	7770	2721	5437	8158	277	479	756	274	377	651	176	159	335
2005	16	10	26	2618	5624	8242	2634	5634	8268	241	427	668	233	393	626	215	214	429
2006	0	0	0	2875	6165	9040	2875	6165	9040	202	313	515	241	403	644	252	190	442
2007	0	0	0	3171	6641	9812	3171	6641	9812	97	373	470	236	368	604	220	192	412
2008	0	0	0	3575	6925	10 500	3575	6925	10 500	225	402	627	275	457	732	262	206	468
2009	0	0	0	3912	7076	10 988	3912	7076	10 988	179	349	528	371	396	767	228	230	458
2010	0	0	0	4287	7200	11 487	4287	7200	11 487	191	336	527	343	430	773	243	207	450
2011	0	0	0	4553	7378	11 931	4553	7378	11 931	167	248	415	352	470	822	250	221	471
2012	0	0	0	4937	7782	12 719	4937	7782	12 719	163	281	444	298	383	681	275	222	497

(Continued)

Table 3. (Continued)

Year	BS Pharmacy <sup>a</sup>			PharmD1 <sup>b</sup>			First Professional <sup>c</sup>			PharmD2 <sup>d</sup>			MS			PhD		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
2013	0	0	0	5063	8144	13 207	5063	8144	13 207	132	212	344	265	390	655	293	296	589
2014	0	0	0	5483	8355	13 838	5483	8355	13 838	110	229	339	340	435	775	298	267	565
2015	0	0	0	5369	8625	13 994	5369	8625	13 994	88	185	273	326	394	720	312	249	561

<sup>a</sup>Includes BPharm Degree

<sup>b</sup>PharmD1 refers to the doctor of pharmacy degree awarded as the first professional degree

<sup>c</sup>Includes BS Pharmacy, BPharm, and PharmD1

<sup>d</sup>PharmD2 refers to the doctor of pharmacy degree awarded as a postbaccalaureate degree

Chapman, Keck Graduate Institute, Fairleigh Dickinson, Manchester, Marshall, Cedarville, North Texas, and Texas at Tyler).

In 2014-15 there were 13,994 first professional degrees conferred by colleges and schools compared to 13,838 in 2013-14 [Table 4]. The total number of first professional degrees conferred in 2014-15 represented a 1.1 percent increase from the total number of first professional degrees conferred in 2013-14 [Table 5].

In 1979-80, men received 59.5 percent of the first professional degrees conferred by colleges and schools and women received 40.5 percent. Over the past 35 years, these percentages have shifted dramatically and, in 2014-15, men received 38.4 percent of the first professional degrees conferred and 61.6 percent of these degrees were received by women. Women received the highest percentage of degrees conferred in 2005-06 (68.2 percent) [Table 6].

White Americans received 54.7 percent of first professional degrees conferred in 2014-15. Asian Americans received 24.6 percent of the first professional degrees. Underrepresented minorities received 11.8 percent of the first professional degrees conferred in 2014-15 (Black or African American, 6.9 percent; Hispanic or Latino, 4.1 percent; Native Hawaiian or Other Pacific Islander, 0.3 percent; American Indian or Alaska Native, 0.5 percent). The percentage of first professional degree recipients who were of two or more races was 1.8 percent and the percentage of recipients who were foreign, nonpermanent residents of the U.S. was 2.9 percent [Table 7].

#### Doctor of Pharmacy Degrees Conferred to Post Baccalaureate Students

Seven colleges and schools conferred the Pharm.D. degree to post baccalaureate students in 2014-15. The number of graduates per institution ranged from 4 to 105 students (median, 37 students). The number of doctor of pharmacy degrees conferred as postbaccalaureate degrees (Pharm.D.2) decreased by 19.5 percent to 273 in 2014-15 from 339 in 2013-14 [Table 5]. More women

than men received Pharm.D.2 degrees in 2014-15 (women, 67.8 percent; men, 32.2 percent) [Table 6].

White Americans received 31.5 percent of Pharm.D.2 degrees conferred in 2014-15. Asian Americans received 18.3 percent of the Pharm.D.2 degrees conferred. Underrepresented minorities received 14.3 percent of the Pharm.D.2 degrees conferred (black, 10.6 percent; Hispanic or Latino, 3.3 percent; Native Hawaiian or Other Pacific Islander, 0.0 percent; American Indian or Alaska Native, 0.4 percent). Students of two or more races received 0.0 of Pharm.D.2 degrees conferred in 2014-15. The percentage of Pharm.D.2 degree recipients who were foreign, nonpermanent residents of the U.S. was 17.9 percent, up from 10.0 percent in 2013-14 [Table 8].

#### Graduate Degrees Conferred

The number of graduate degrees (M.S. and Ph.D.) conferred has shown annual fluctuations over the 50 years data have been consistently gathered and reported [Table 3]. The number of M.S. degrees conferred decreased to 720 in 2014-15 from 775 in 2013-14, a 7.1 percent decrease. The number of Ph.D. degrees conferred decreased in 2014-15 to 561 from 565 in 2013-14 (0.7 percent decrease) [Table 5].

The highest percentage of M.S. degrees awarded in 2014-15 (26.4 percent) was in pharmaceuticals. The second highest percentage of M.S. degrees was in social and administrative sciences (25.1 percent); followed by pharmacology (19.3 percent); other disciplines (15.8 percent); medicinal chemistry (7.8 percent); and pharmacy practice (5.6 percent). The highest number of Ph.D. degrees awarded in 2014-15 was also in the discipline of pharmaceuticals (38.7 percent). The second highest number was in medicinal chemistry (23.7 percent); followed by pharmacology (16.8 percent); social and administrative sciences (9.4 percent); other disciplines (8.2 percent); and pharmacy practice (3.2 percent) [Table 9].

More women than men earned M.S. degrees (women, 54.7 percent; men, 45.3 percent); however, more men than women earned Ph.D. degrees (women, 44.4 percent; men,

Table 4. Baccalaureate and Doctor of Pharmacy (PharmD1) Degrees as Percentages of Total First Professional Degrees Conferred 1981-2015

Year	BS Pharmacy <sup>a</sup>	PharmD1 <sup>b</sup>	First Professional <sup>c</sup>
	n (%)	n (%)	n
1981	6869 (93.8)	454 (6.2)	7323
1982	6448 (94.0)	411 (6.0)	6859
1983	5919 (92.9)	455 (7.1)	6374
1984	5546 (93.0)	417 (7.0)	5963
1985	5147 (89.7)	588 (10.3)	5735
1986	5190 (89.5)	610 (10.5)	5800
1987	5164 (88.2)	690 (11.8)	5854
1988	5371 (86.9)	813 (13.1)	6184
1989	5721 (87.3)	839 (12.7)	6560
1990	6010 (86.4)	946 (13.6)	6956
1991	5927 (83.2)	1195 (16.8)	7122
1992	5897 (82.9)	1216 (17.1)	7113
1993	6031 (81.7)	1349 (18.3)	7380
1994	6145 (81.9)	1359 (18.1)	7504
1995	6218 (79.3)	1619 (20.7)	7837
1996	6168 (77.1)	1835 (22.9)	8003
1997	5768 (74.2)	2004 (25.8)	7772
1998	4768 (64.4)	2632 (35.6)	7400
1999	3876 (54.3)	3265 (45.7)	7141
2000	2956 (40.7)	4304 (59.3)	7260
2001	1914 (27.3)	5086 (72.7)	7000
2002	1415 (18.7)	6158 (81.3)	7573
2003	839 (11.2)	6649 (88.8)	7488
2004	388 (4.8)	7770 (95.2)	8158
2005	26 (0.3)	8242 (99.7)	8268
2006	0 (0.0)	9040 (100.0)	9040
2007	0 (0.0)	9812 (100.0)	9812
2008	0 (0.0)	10 500 (100.0)	10500
2009	0 (0.0)	10 988 (100.0)	10988
2010	0 (0.0)	11 487 (100.0)	11487
2011	0 (0.0)	11 931 (100.0)	11931
2012	0 (0.0)	12 719 (100.0)	12719
2013	0 (0.0)	13 207 (100.0)	13207
2014	0 (0.0)	13 838 (100.0)	13838
2015	0 (0.0)	13 994 (100.0)	13994

<sup>a</sup>Includes BPharm degree

<sup>b</sup>PharmD1 refers to the doctor of pharmacy degree awarded as the first professional degree

<sup>c</sup>Includes BS Pharmacy, BPharm, and PharmD1

55.6 percent) in 2014-15. There have only been two years (2012-13 and 2008-09) since AACP began collecting data that women received more Ph.D. degrees than men. The percentage of women receiving Ph.D. degrees decreased from 47.3 percent in 2013-14 to 44.4 percent in 2014-15; however, the number of Ph.D. degrees received by women has grown substantially from 18.0 percent in 1979-80 [Table 6]. This increase can be partially attributed to an increase in the number of foreign females receiving Ph.D. degrees [Table 10].

Underrepresented minorities received 6.7 percent of the M.S. degrees conferred in 2014-15 (Black or African American, 3.9 percent; Hispanic or Latino, 2.8 percent; Native Hawaiian or Other Pacific Islander, 0.0 percent; American Indian or Alaska Native, 0.0 percent), a decrease from 7.2 percent in 2013-14. Asian Americans received 11.7 percent of the M.S. degrees conferred, up from 9.7 percent in 2013-14. The percentage of M.S. degree recipients who were of two or more races was 1.1 percent and the percent of degree recipients who were foreign, nonpermanent residents of the U.S. was 48.8 percent, down from 49.8 percent in 2013-14 [Table 11].

Underrepresented minorities earned 5.7 percent of the Ph.D. degrees awarded in 2014-15 (Black or African American, 3.2 percent; Hispanic or Latino, 2.3 percent; Native Hawaiian or Other Pacific Islander, 0.0 percent; American Indian or Alaska Native, 0.2 percent), a decrease from 6.8 percent in 2013-14. Asian Americans earned 16.0 percent of the Ph.D. degrees awarded. The percentage of Ph.D. degree recipients who were of two or more races was 0.4 percent and the percentage of degree recipients that were foreign, nonpermanent residents of the U.S. was 45.6 percent, down from 48.5 percent in 2013-14 [Table 12].

## FALL 2015 ENROLLMENTS

The 2015 Undergraduate and Professional Pharmacy Degree Enrollment Survey and Graduate Degree Enrollment Survey were conducted online in October 2015, with an announcement and request for participation sent to the survey coordinator at each of the 135 colleges and schools of pharmacy in the U.S. recognized by ACPE. Submission of the data was requested by December 2015. After follow-up correspondence, 133 colleges and schools (98.5 percent) submitted the requested information.

### Professional Degree Programs

Fall 2015 enrollments in the Pharm.D. as the first professional degree programs (n= 63,460) represented a 0.7 percent decrease from enrollments in fall 2014 (n= 63,927) [Table 13]. In fall 2015, 61.4 percent of the students enrolled in the Pharm.D. as the first professional degree programs were females and 38.6 percent were males [Table 14].

White Americans comprised the majority (51.6 percent) of students enrolled in the Pharm.D. as the first professional degree programs. Asian Americans accounted for 25.3 percent; Black or African Americans, 7.9 percent; Hispanic or Latino, 5.0 percent; Native Hawaiians/ Other Pacific Islanders, 0.4 percent; American Indians/ Alaska Natives, 0.3 percent; and international/foreign students, 3.1 percent. Students that identified as two or

Table 5. Annual Percentage Change in Number of Pharmacy Degrees Conferred 1981-2015 Over Previous Year

Year	First Professional <sup>a</sup>	PharmD2 <sup>b</sup>	MS	PhD
	No. (% Change)	No. (% Change)	No. (% Change)	No. (% Change)
1981	7323 (-1.5)	210 (+16.7)	434 (-6.7)	180 (-4.8)
1982	6859 (-6.3)	207 (-1.4)	458 (+5.5)	182 (+1.1)
1983	6374 (-7.1)	271 (+30.9)	426 (-7.0)	208 (+14.3)
1984	5963 (-6.4)	331 (+22.2)	394 (-7.5)	227 (+9.1)
1985	5735 (-3.8)	224 (-32.3)	338 (-14.2)	232 (+2.2)
1986	5800 (+1.1)	210 (-6.3)	415 (+22.8)	260 (+12.1)
1987	5854 (+0.9)	212 (+1.0)	348 (-16.1)	283 (+8.8)
1988	6184 (+5.6)	159 (-25.0)	353 (+1.4)	263 (-7.1)
1989	6560 (+6.0)	222 (+39.6)	391 (+10.8)	287 (+9.1)
1990	6956 (+6.0)	302 (+36.0)	385 (-1.5)	273 (-4.9)
1991	7122 (+2.4)	271 (-10.3)	364 (-5.5)	313 (+14.7)
1992	7113 (-0.1)	286 (+5.5)	282 (-22.5)	317 (+1.3)
1993	7380 (+3.8)	396 (+38.5)	301 (+6.7)	348 (+9.8)
1994	7504 (+1.7)	575 (+45.2)	355 (+17.9)	320 (-8.0)
1995	7837 (+4.4)	704 (+22.4)	392 (+10.4)	350 (+9.4)
1996	8003 (+2.1)	732 (+4.0)	422 (+7.7)	304 (-13.1)
1997	7772 (-2.9)	859 (+17.3)	400 (-5.2)	358 (+17.8)
1998	7400 (-4.8)	1014 (+18.0)	421 (+5.3)	411 (+14.8)
1999	7141 (-3.5)	913 (-10.0)	384 (-8.8)	359 (-12.7)
2000	7260 (+1.7)	1269 (+39.0)	354 (-7.8)	323 (-10.0)
2001	7000 (-3.6)	979 (-22.9)	461 (+30.2)	375 (+16.1)
2002	7573 (+8.2)	780 (-20.3)	443 (-3.9)	376 (+0)
2003	7488 (-1.1)	895 (+14.7)	472 (+6.5)	384 (+2.1)
2004	8158 (+8.9)	756 (-15.5)	651 (+37.9)	335 (-12.8)
2005	8268 (+1.3)	668 (-11.6)	626 (-3.8)	429 (+28.1)
2006	9040 (+9.3)	515 (-22.9)	644 (+2.9)	442 (+3.0)
2007	9812 (+8.5)	470 (-8.7)	604 (-6.2)	412 (-6.8)
2008	10 500 (+7.0)	627 (+33.4)	732 (+21.2)	468 (+13.6)
2009	10 988 (+4.6)	528 (-15.8)	767 (+4.8)	458 (-2.1)
2010	11 487 (+4.5)	527 (-0.2)	773 (+0.8)	450 (-1.7)
2011	11 931 (+3.9)	415 (-21.3)	822 (+6.3)	471 (+4.7)
2012	12 719 (+6.6)	444 (+7.0)	681 (-17.2)	497 (+5.5)
2013	13 207 (+3.8)	344 (-22.5)	655 (-3.8)	589 (+18.5)
2014	13 838 (+4.8)	339 (-1.5)	775 (+18.3)	565 (-4.1)
2015	13 994 (+1.1)	273 (-19.5)	720 (-7.1)	561 (-0.7)

<sup>a</sup>Includes BS Pharmacy, BPharm, and PharmD1 from 1981-2005. Includes only PharmD1 beginning in 2006

<sup>b</sup>PharmD2 refers to the doctor of pharmacy degree awarded as a postbaccalaureate degree

more races accounted for 2.3 percent of all first professional degree enrollments. Students where race/ethnicity was unknown accounted for 4.0 percent of enrollees. Enrollments of underrepresented minorities (Black or African American, Hispanic or Latino, Native Hawaiian or Other Pacific Islander, American Indian or Alaska Native) as a percentage of total enrollments in the Pharm.D. as a first professional degree programs increased to 13.6 percent in fall 2015 from 12.4 percent in fall 2014 [Table 15].

Eight colleges and schools reported 936 students who already held a baccalaureate in pharmacy enrolled in doctor of pharmacy degree programs (Pharm.D.2). This was an increase of 0.1 percent from fall 2014.

Underrepresented minorities accounted for 22.8 percent of these students (Black or African American, 20.4 percent; Hispanic, 1.7 percent; Native Hawaiians/Other Pacific Islander, 0.2 percent; American Indians/Alaska Native, 0.4 percent). White Americans comprised 25.4 percent; Asian Americans, 21.9 percent; students of two or more races, 0.0 percent; unknown, 16.0 percent; and international/foreign students, 13.9 percent.

### Graduate Degree Programs

In fall 2015, the discipline of pharmaceuticals had the highest percentage of full-time enrollees at both the M.S. and Ph.D. levels (36.6 percent and 37.2 percent,

Table 6. Percentage of Pharmacy Degrees Conferred 1980-2015 by Gender

Year	BS Pharmacy <sup>a</sup>		PharmD1 <sup>b</sup>		First Professional <sup>c</sup>		PharmD2 <sup>d</sup>		MS		PhD	
	M	F	M	F	M	F	M	F	M	F	M	F
1980	59.5	40.5	59.7	40.3	59.5	40.5	66.7	33.3	67.7	32.3	82.0	18.0
1981	54.6	45.4	58.4	41.6	54.9	45.1	51.9	48.1	62.4	37.6	84.4	15.6
1982	53.0	47.0	52.8	47.2	53.0	47.0	57.5	42.5	64.0	36.0	80.2	19.8
1983	50.6	49.4	52.7	47.3	50.7	49.3	50.2	49.8	65.0	35.0	74.0	26.0
1984	51.0	49.0	45.1	54.9	50.5	49.5	51.1	48.9	64.2	35.8	76.7	23.3
1985	45.9	54.1	47.8	52.2	46.1	53.9	54.0	46.0	62.1	37.9	75.4	24.6
1986	45.7	54.3	45.6	54.4	45.7	54.3	46.2	53.8	59.0	41.0	73.8	26.2
1987	43.3	56.7	42.2	57.8	43.1	56.9	40.6	59.4	56.6	43.4	71.7	28.3
1988	41.8	58.2	39.6	60.4	41.5	58.5	46.5	53.5	55.0	45.0	71.5	28.5
1989	40.4	59.6	37.4	62.6	40.0	60.0	44.6	55.4	57.8	42.2	61.0	39.0
1990	39.8	60.2	41.0	59.0	40.0	60.0	39.1	60.9	52.5	47.5	66.3	33.7
1991	38.3	61.7	36.5	63.5	38.0	62.0	39.1	60.9	51.9	48.1	64.2	35.8
1992	38.3	61.7	35.9	64.1	37.9	62.1	43.4	56.6	52.5	47.5	61.5	38.5
1993	37.2	62.8	34.1	65.9	36.6	63.4	35.6	64.4	49.2	50.8	64.1	35.9
1994	37.0	63.0	32.0	68.0	36.1	63.9	36.2	63.8	51.3	48.7	61.9	38.1
1995	36.8	63.2	34.2	65.8	36.3	63.7	38.4	61.6	47.7	52.3	62.3	37.7
1996	37.5	62.5	31.8	68.2	36.2	63.8	36.1	63.9	51.4	48.6	61.2	38.8
1997	38.4	61.7	34.5	65.5	37.4	62.6	37.4	62.6	47.8	52.2	60.9	39.1
1998	38.1	61.9	31.5	68.5	35.8	64.2	34.6	65.4	46.8	53.2	57.9	42.1
1999	39.4	60.6	33.1	66.9	36.5	63.5	34.5	65.5	44.8	55.2	61.6	38.4
2000	37.7	62.3	33.3	66.7	35.1	64.9	37.0	63.0	43.5	56.5	53.9	46.1
2001	39.4	60.6	34.0	66.0	35.5	64.5	37.5	62.5	39.5	60.5	56.3	43.7
2002	38.2	61.8	33.4	66.6	34.3	65.7	35.4	64.6	40.2	59.8	57.4	42.6
2003	36.1	63.9	35.1	64.9	35.2	64.8	37.8	62.2	42.2	57.8	54.7	45.3
2004	39.4	60.6	33.1	66.9	33.4	66.6	36.6	63.4	42.1	57.9	52.5	47.5
2005	61.5	38.5	31.8	68.2	31.9	68.1	36.1	63.9	37.2	62.8	50.1	49.9
2006	NA	NA	31.8	68.2	31.8	68.2	39.2	60.8	37.5	62.5	57.0	43.0
2007	NA	NA	32.3	67.7	32.3	67.7	20.6	79.4	39.1	60.9	53.4	46.6
2008	NA	NA	34.0	66.0	34.0	66.0	35.9	64.1	37.6	62.4	56.0	44.0
2009	NA	NA	35.6	64.4	35.6	64.4	33.9	66.1	48.4	51.6	49.8	50.2
2010	NA	NA	37.3	62.7	37.3	62.7	36.2	63.8	44.4	55.6	54.0	46.0
2011	NA	NA	38.2	61.8	38.2	61.8	40.2	59.8	42.8	57.2	53.1	46.9
2012	NA	NA	38.8	61.2	38.8	61.2	36.7	63.3	43.8	56.2	55.3	44.7
2013	NA	NA	38.3	61.7	38.3	61.7	38.4	61.6	40.5	59.5	49.7	50.3
2014	NA	NA	39.6	60.4	39.6	60.4	32.4	67.6	43.9	56.1	52.7	47.3
2015	NA	NA	38.4	61.6	38.4	61.6	32.2	67.8	45.3	54.7	55.6	44.4

<sup>a</sup>Includes BPharm degree

<sup>b</sup>PharmD1 refers to the doctor of pharmacy degree awarded as the first professional degree

<sup>c</sup>Includes BS Pharmacy, BPharm, and PharmD1 from 1981-2005. Includes only PharmD1 beginning in 2006

<sup>d</sup>PharmD2 refers to the doctor of pharmacy degree awarded as a postbaccalaureate degree

NA=not applicable

respectively). At the master's level, 24.6 percent of the students were enrolled in social and administrative sciences programs; 16.5 percent in pharmacology programs; 9.3 percent in pharmacy practice programs; 7.5 percent in medicinal chemistry programs; and 5.5 percent in other disciplines. At the doctoral level, 24.0 percent of the students were enrolled in medicinal chemistry programs; 17.1 percent in pharmacology programs; 10.0 percent in social and administrative science programs; 8.4

percent in other disciplines; and 3.3 percent in pharmacy practice [Table 16].

In fall 2015, more females than males were enrolled full-time in M.S. degree programs (females, 57.6 percent; males, 42.4 percent). Women accounted for 47.1 percent of the students enrolled full-time in Ph.D. programs in 2015, a slight increase from 47.0 percent in 2014.

Of the 1,127 students enrolled full-time in M.S. degree programs in fall 2015, the majority (58.6 percent)

Table 7. Percentage of First Professional Degree (BS Pharmacy, BPharm, and PharmD1) Recipients 1980-2015 by Race/Ethnicity

Year	White <sup>a</sup>	Black or African American <sup>a</sup>	Hispanic or Latino <sup>a</sup>	Asian <sup>a</sup>	Native Hawaiian or Other Pacific Islander <sup>a</sup>	American Indian or Alaska Native <sup>a</sup>	Two or More Races <sup>a</sup>	Unknown <sup>a</sup>	International/Foreign <sup>b</sup>
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
1980	6335 (85.2)	249 (3.4)	277 (3.7)	292 (3.9)	NA	8 (0.1)	NA	49 (0.7)	222 (3.0)
1981	6205 (84.7)	230 (3.1)	361 (4.9)	288 (3.9)	NA	5 (0.1)	NA	7 (0.1)	227 (3.1)
1982	5810 (84.7)	250 (3.6)	241 (3.5)	317 (4.6)	NA	13 (0.2)	NA	18 (0.3)	210 (3.1)
1983	5189 (81.4)	241 (3.8)	261 (4.1)	316 (5.0)	NA	8 (0.1)	NA	93 (1.5)	266 (4.2)
1984	4676 (78.4)	242 (4.1)	217 (3.6)	339 (5.7)	NA	10 (0.2)	NA	174 (2.9)	305 (5.1)
1985	4591 (80.1)	250 (4.4)	245 (4.3)	320 (5.6)	NA	6 (0.1)	NA	8 (0.1)	315 (5.5)
1986	4534 (78.2)	306 (5.3)	217 (3.7)	333 (5.7)	NA	11 (0.2)	NA	0 (0.0)	399 (6.9)
1987	4559 (77.9)	298 (5.1)	258 (4.4)	371 (6.3)	NA	8 (0.1)	NA	15 (0.3)	345 (5.9)
1988	4943 (79.9)	282 (4.6)	248 (4.0)	335 (5.4)	NA	12 (0.2)	NA	27 (0.4)	337 (5.4)
1989	5040 (76.8)	310 (4.7)	249 (3.8)	454 (6.9)	NA	12 (0.2)	NA	90 (1.4)	405 (6.2)
1990	5303 (76.2)	368 (5.3)	254 (3.7)	586 (8.4)	NA	11 (0.2)	NA	88 (1.3)	346 (5.0)
1991	5381 (75.6)	350 (4.9)	288 (4.1)	745 (10.5)	NA	20 (0.3)	NA	58 (0.8)	280 (3.9)
1992	5304 (74.6)	381 (5.4)	289 (4.1)	771 (10.8)	NA	20 (0.3)	NA	40 (0.6)	308 (4.3)
1993	5346 (72.4)	452 (6.1)	260 (3.5)	873 (11.8)	NA	19 (0.3)	NA	124 (1.7)	306 (4.1)
1994	5476 (73.0)	385 (5.1)	269 (3.6)	972 (13.0)	NA	23 (0.3)	NA	122 (1.6)	257 (3.4)
1995	5584 (71.3)	445 (5.7)	282 (3.6)	1161 (14.8)	NA	28 (0.4)	NA	48 (0.6)	289 (3.7)
1996	5527 (69.1)	528 (6.6)	266 (3.3)	1328 (16.6)	NA	25 (0.3)	NA	56 (0.7)	273 (3.4)
1997	5364 (69.0)	446 (5.7)	282 (3.6)	1363 (17.5)	NA	34 (0.4)	NA	45 (0.6)	238 (3.1)
1998	5041 (68.1)	444 (6.0)	264 (3.6)	1404 (19.0)	NA	26 (0.4)	NA	58 (0.8)	163 (2.2)
1999	4597 (64.4)	401 (5.6)	266 (3.7)	1327 (18.6)	NA	36 (0.5)	NA	366 (5.1)	148 (2.1)
2000	4517 (62.2)	480 (6.6)	287 (4.0)	1505 (20.7)	NA	44 (0.6)	NA	223 (3.1)	204 (2.8)
2001	4469 (63.8)	428 (6.1)	253 (3.6)	1456 (20.8)	NA	26 (0.4)	NA	194 (2.8)	174 (2.5)
2002	4648 (61.4)	575 (7.6)	303 (4.0)	1625 (21.5)	NA	47 (0.6)	NA	198 (2.6)	177 (2.3)
2003	4473 (59.7)	591 (7.9)	310 (4.1)	1691 (22.6)	NA	38 (0.5)	NA	182 (2.4)	203 (2.7)
2004	4954 (60.7)	612 (7.5)	295 (3.6)	1857 (22.8)	NA	32 (0.4)	NA	190 (2.3)	218 (2.7)
2005	5031 (60.8)	720 (8.7)	361 (4.4)	1683 (20.4)	NA	52 (0.6)	NA	226 (2.7)	195 (2.4)
2006 <sup>c</sup>	5650 (62.5)	668 (7.4)	377 (4.2)	1822 (20.2)	NA	39 (0.4)	NA	265 (2.9)	219 (2.4)
2007	6182 (63.0)	682 (7.0)	386 (3.9)	1970 (20.1)	NA	53 (0.5)	NA	337 (3.4)	202 (2.1)
2008	6560 (62.5)	702 (6.7)	407 (3.9)	2106 (20.1)	NA	61 (0.6)	NA	424 (4.0)	240 (2.3)
2009	6660 (60.6)	688 (6.3)	454 (4.1)	2333 (21.2)	NA	64 (0.6)	NA	497 (4.5)	292 (2.7)
2010	6880 (59.9)	744 (6.5)	489 (4.3)	2463 (21.4)	NA	50 (0.4)	NA	602 (5.2)	259 (2.3)
2011	7136 (59.8)	763 (6.4)	512 (4.3)	2570 (21.5)	43 (0.4)	42 (0.4)	37 (0.3)	520 (4.4)	308 (2.6)
2012	7396 (58.1)	832 (6.5)	532 (4.2)	2784 (21.9)	198 (1.6)	61 (0.5)	98 (0.8)	537 (4.2)	281 (2.2)
2013	7479 (56.6)	916 (6.9)	563 (4.3)	3024 (22.9)	45 (0.3)	52 (0.4)	91 (0.7)	744 (5.6)	293 (2.2)
2014	7564 (54.7)	942 (6.8)	602 (4.4)	3335 (24.1)	30 (0.2)	44 (0.3)	174 (1.3)	844 (6.1)	303 (2.2)
2015	7653 (54.7)	961 (6.9)	578 (4.1)	3437 (24.6)	44 (0.3)	63 (0.5)	248 (1.8)	605 (4.3)	405 (2.9)

<sup>a</sup>U.S. citizen or permanent resident

<sup>b</sup>Citizens of a foreign country/permanent residents of a country other than the U.S

<sup>c</sup>Includes only Pharm.D.1 degrees from 2006 onward

NA: Not available

were foreign students. White Americans comprised 21.2 percent of enrollees and Asian Americans accounted for 9.0 percent. Underrepresented minorities accounted for 8.2 percent of M.S. enrollees (Black or African American, 2.8 percent; Hispanic or Latino, 4.9 percent; Native Hawaiian or Other Pacific Islander, 0.4 percent; American Indian or Alaska Native, 0.1 percent). Americans of two

or more races made up 1.2 percent of enrollees and 2.0 percent of all full-time M.S. degree enrollees were reported as race/ethnicity unknown.

Of the 3,294 students enrolled full-time in Ph.D. degree programs in fall 2015, foreign students were also the largest group, accounting for 51.0 percent of the enrollees. White Americans were the next largest group at 29.8



Table 8. Percentage of Postbaccalaureate Doctor of Pharmacy Degree (PharmD2) Recipients 1980-2015 by Race/Ethnicity

Year	White <sup>a</sup>	Black or African American <sup>a</sup>	Hispanic or Latino <sup>a</sup>	Asian <sup>a</sup>	Native Hawaiian or Other Pacific Islander <sup>a</sup>	American Indian or Alaska Native <sup>a</sup>	Two or More Races <sup>a</sup>	Unknown <sup>a</sup>	International/Foreign <sup>b</sup>
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
1980	161 (89.4)	4 (2.2)	2 (1.1)	3 (1.7)	NA	0 (0.0)	NA	0 (0.0)	10 (5.6)
1981	171 (81.4)	7 (3.3)	9 (4.3)	5 (2.4)	NA	0 (0.0)	NA	1 (0.5)	17 (8.1)
1982	172 (83.1)	6 (2.9)	3 (1.4)	9 (4.3)	NA	1 (0.5)	NA	0 (0.0)	16 (7.7)
1983	217 (80.1)	23 (8.5)	7 (2.6)	9(3.3)	NA	0 (0.0)	NA	0 (0.0)	15 (5.5)
1984	268 (81.0)	10 (3.0)	5 (1.5)	8 (2.4)	NA	0 (0.0)	NA	4 (1.2)	36 (10.9)
1985	174 (77.7)	13 (5.8)	2 (0.9)	7 (3.1)	NA	1 (0.4)	NA	6 (2.7)	21 (9.4)
1986	154 (73.3)	15 (7.1)	6 (2.9)	6 (2.9)	NA	0 (0.0)	NA	0 (0.0)	29 (13.8)
1987	170 (80.2)	5 (2.4)	7 (3.3)	6 (2.8)	NA	0 (0.0)	NA	4 (1.9)	20 (9.4)
1988	124 (78.0)	5 (3.1)	1 (0.6)	3 (1.9)	NA	0 (0.0)	NA	0 (0.0)	26 (16.4)
1989	171 (77.0)	9 (4.1)	3 (1.4)	14 (6.3)	NA	0 (0.0)	NA	0 (0.0)	25 (11.3)
1990	244 (80.8)	13 (4.3)	10 (3.3)	10 (3.3)	NA	0 (0.0)	NA	4 (1.3)	21 (7.0)
1991	217 (80.1)	11 (4.1)	4 (1.5)	11 (4.1)	NA	0 (0.0)	NA	2 (0.7)	26 (9.6)
1992	232 (81.1)	15 (5.2)	2 (0.7)	6 (2.1)	NA	0 (0.0)	NA	1 (0.3)	30 (10.5)
1993	308 (77.8)	17 (4.3)	9 (2.3)	16(4.0)	NA	2 (0.5)	NA	6 (1.5)	38 (9.6)
1994	462 (80.3)	26 (4.5)	12 (2.1)	33 (5.7)	NA	0 (0.0)	NA	1 (0.2)	41 (7.1)
1995	573 (81.4)	38 (5.4)	10 (1.4)	47 (6.7)	NA	2 (0.3)	NA	2 (0.3)	32 (4.5)
1996	589 (80.5)	34 (4.6)	11 (1.5)	55 (7.5)	NA	1 (0.1)	NA	6 (0.8)	36 (4.9)
1997	674 (78.5)	59 (6.9)	5 (0.6)	64 (7.5)	NA	3 (0.4)	NA	12 (1.4)	42 (4.9)
1998	786 (77.5)	41 (4.0)	12 (1.2)	125(12.3)	NA	0 (0.0)	NA	6 (0.6)	44 (4.3)
1999	627 (68.7)	59 (6.5)	35 (3.8)	108 (11.8)	NA	7 (0.8)	NA	53 (5.8)	24 (2.6)
2000	897 (70.7)	67 (5.3)	54 (4.3)	175 (13.8)	NA	10 (0.8)	NA	31 (2.4)	35 (2.8)
2001	690 (70.0)	62 (6.3)	23 (2.3)	153 (15.6)	NA	9 (0.9)	NA	20 (2.0)	22 (2.2)
2002	533 (68.3)	43 (5.5)	29 (3.7)	125 (16.0)	NA	4 (0.5)	NA	31 (4.0)	15 (1.9)
2003	567 (63.4)	57 (6.4)	34 (3.8)	149 (16.6)	NA	4 (0.4)	NA	60 (6.7)	24 (2.7)
2004	472 (62.4)	80 (10.6)	43 (5.7)	89 (11.8)	NA	4 (0.5)	NA	30 (4.0)	38 (5.0)
2005	351 (52.5)	55 (8.2)	53 (7.9)	86 (12.9)	NA	3 (0.4)	NA	84 (12.6)	36 (5.4)
2006	284 (55.1)	42 (8.2)	29 (5.6)	68 (13.2)	NA	0 (0.0)	NA	54 (10.5)	38 (7.4)
2007	187 (39.8)	97 (20.6)	47 (10.0)	72 (15.3)	NA	3 (0.6)	NA	32 (6.8)	32 (6.8)
2008	344 (54.9)	61 (9.7)	22 (3.5)	103 (16.4)	NA	1 (0.2)	NA	36 (5.7)	60 (9.6)
2009	254 (48.1)	46 (8.7)	23 (4.4)	97 (18.4)	NA	2 (0.4)	NA	35 (6.6)	71 (13.4)
2010	193 (36.6)	53 (10.1)	33 (6.3)	91 (17.3)	NA	2 (0.4)	NA	65 (12.3)	90 (17.1)
2011	162 (39.0)	47 (11.3)	32 (7.7)	79 (19.0)	4 (1.0)	1 (0.2)	0 (0.0)	24 (5.8)	66 (15.9)
2012	182 (41.0)	46 (10.4)	26 (5.9)	96 (21.6)	0 (0.0)	0 (0.0)	0 (0.0)	42 (9.5)	52 (11.7)
2013	139 (40.4)	36 (10.5)	14 (4.1)	66 (19.2)	0 (0.0)	0 (0.0)	0 (0.0)	21 (6.1)	68 (19.8)
2014	121 (35.7)	52 (15.3)	17 (5.0)	79 (23.3)	0 (0.0)	2 (0.6)	1 (0.3)	33 (9.7)	34 (10.0)
2015	86 (31.5)	29 (10.6)	9 (3.3)	50 (18.3)	0 (0.0)	1 (0.4)	0 (0.0)	49 (17.9)	49 (17.9)

<sup>a</sup>U.S. citizen or permanent resident

<sup>b</sup>Citizens of a foreign country/permanent residents of a country other than the U.S

NA: Not available

percent of full time enrollments, followed by Asian Americans 9.4 percent. Underrepresented minorities accounted for 6.6 percent of Ph.D. enrollees (Black or African American, 4.1 percent; Hispanic or Latino, 2.1 percent; Native Hawaiian or Other Pacific Islander, 0.1 percent; American Indian or Alaska Native, 0.2 percent). Americans of two or more races accounted for 0.9 percent and 2.2 percent of all

full-time Ph.D. degree enrollees were reported as unknown. Over 41 percent (41.8) of full-time and part-time students in Ph.D. programs held a professional pharmacy degree, 10.5 percent of Ph.D. students held a professional pharmacy degree from a U.S. college or school of pharmacy and 31.3 percent held a pharmacy degree conferred by a non-U.S. institution [Table 17].

Table 9. Summary of Master of Science and Doctor of Philosophy Degrees Conferred 2014-15 by Gender and Discipline

Discipline	MS Degree				PhD Degree			
	M	F	Total	% MS Degrees Conferred	M	F	Total	% PhD Degree Conferred
Medicinal chemistry	24	32	56	7.8	80	53	133	23.7
Pharmacology	67	72	139	19.3	55	39	94	16.8
Social and administrative sciences	87	94	181	25.1	26	27	53	9.4
Pharmacy practice	16	24	40	5.6	7	11	18	3.2
Pharmaceutics	90	100	190	26.4	114	103	217	38.7
Other <sup>a</sup>	42	72	114	15.8	30	16	46	8.2
Total	326	394	720		312	249	561	

<sup>a</sup>Includes Biophysics/Biological & Medical Informatics, Biochemistry/Toxicology & Immunology, Pharmacometrics, Informatics, Regulatory Affairs & Quality Assurance/Compliance, and Regulatory Affairs in MS programs and Bioengineering/Biophysics/Biological & Medical Informatics, Pharmacotherapy & Translational Research, Pharmaceutical & Biomedical Science, Neuroscience, and Pharmaceutical & Pharmacological Sciences in PhD programs

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Table 10. Number of Doctor of Philosophy Degrees (PhD) Conferred 1980-2015 by Gender and Race/Ethnicity

Year	Native												International/ Foreign <sup>b</sup>						Total												
	Black or African American <sup>a</sup>			Hispanic or Latino <sup>a</sup>			Asian <sup>a</sup>			Hawaiian or Other Pacific Islander <sup>a</sup>			American Indian or Alaska Native <sup>a</sup>			Two or More Races <sup>a</sup>			Unknown <sup>a</sup>												
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T				
1980	96	16	112	3	0	3	1	0	1	10	2	12	NA	NA	NA	0	0	0	0	NA	NA	NA	2	1	3	43	15	58	155	34	189
1981	112	21	133	1	0	1	1	0	1	6	2	8	NA	NA	NA	0	0	0	0	NA	NA	NA	0	0	0	32	5	37	152	28	180
1982	105	21	126	1	0	1	1	0	1	2	1	3	NA	NA	NA	0	0	0	0	NA	NA	NA	1	0	1	36	14	50	146	36	182
1983	104	28	132	0	0	0	1	0	1	6	3	9	NA	NA	NA	0	0	0	0	NA	NA	NA	3	1	4	40	22	62	154	54	208
1984	105	30	135	2	0	2	5	2	7	11	2	13	NA	NA	NA	0	0	0	0	NA	NA	NA	6	0	6	45	19	64	174	53	227
1985	106	34	140	2	0	2	1	1	2	6	4	10	NA	NA	NA	1	0	1	1	NA	NA	NA	0	0	0	59	18	77	175	57	232
1986	112	48	160	2	0	2	1	0	1	4	2	6	NA	NA	NA	0	0	0	0	NA	NA	NA	0	0	0	73	18	91	192	68	260
1987	119	43	162	2	0	2	4	0	4	7	6	13	NA	NA	NA	0	0	0	0	NA	NA	NA	7	1	8	64	30	94	203	80	283
1988	97	48	145	1	1	2	3	0	3	4	2	6	NA	NA	NA	0	0	0	0	NA	NA	NA	1	1	2	82	23	105	188	75	263
1989	100	54	154	1	3	4	2	2	4	6	4	10	NA	NA	NA	0	0	0	0	NA	NA	NA	3	3	6	63	46	109	175	112	287
1990	100	51	151	4	3	7	1	0	1	17	7	24	NA	NA	NA	0	0	0	0	NA	NA	NA	6	2	8	53	29	82	181	92	273
1991	104	64	168	5	3	8	3	0	3	12	14	26	NA	NA	NA	0	0	0	0	NA	NA	NA	5	0	5	72	31	103	201	112	313
1992	78	60	138	5	3	8	3	1	4	12	9	21	NA	NA	NA	0	0	0	0	NA	NA	NA	3	1	4	94	48	142	195	122	317
1993	110	50	160	1	4	5	2	1	3	10	10	20	NA	NA	NA	1	0	1	1	NA	NA	NA	0	0	0	99	60	159	223	125	348
1994	95	56	151	2	4	6	2	2	4	16	9	25	NA	NA	NA	0	0	0	0	NA	NA	NA	2	0	2	82	51	133	198	122	320
1995	95	53	148	5	5	10	1	4	5	20	13	33	NA	NA	NA	1	1	2	2	NA	NA	NA	3	1	4	93	55	148	218	132	350
1996	83	52	135	3	6	9	1	4	5	11	12	23	NA	NA	NA	0	0	0	0	NA	NA	NA	2	1	3	86	43	129	186	118	304
1997	87	58	145	6	4	10	1	2	3	12	13	25	NA	NA	NA	0	0	0	0	NA	NA	NA	7	0	7	105	63	168	218	140	358
1998	101	65	166	4	10	14	5	1	6	14	18	32	NA	NA	NA	2	0	2	2	NA	NA	NA	1	3	4	111	76	187	238	173	411
1999	82	49	131	6	7	13	4	2	6	22	17	39	NA	NA	NA	0	0	0	0	NA	NA	NA	12	3	15	95	60	155	221	138	359
2000	61	62	123	5	6	11	0	0	0	23	15	38	NA	NA	NA	0	0	0	0	NA	NA	NA	6	14	20	79	52	131	174	149	323
2001	83	46	129	5	10	15	4	2	6	27	27	54	NA	NA	NA	0	0	0	0	NA	NA	NA	3	1	4	89	78	167	211	164	375
2002	92	59	151	2	6	8	2	3	5	14	13	27	NA	NA	NA	2	0	2	2	NA	NA	NA	3	4	7	101	75	176	216	160	376
2003	77	62	139	5	8	13	7	2	9	19	13	32	NA	NA	NA	0	0	0	0	NA	NA	NA	4	1	5	98	88	186	210	174	384
2004	67	47	114	6	5	11	2	3	5	15	16	31	NA	NA	NA	0	0	0	0	NA	NA	NA	3	1	4	83	87	170	176	159	335
2005	66	43	109	10	9	19	5	3	8	10	25	35	NA	NA	NA	1	1	2	2	NA	NA	NA	3	3	6	120	130	250	215	214	429
2006	82	45	127	5	12	17	5	3	8	19	15	34	NA	NA	NA	0	0	0	0	NA	NA	NA	2	0	2	139	115	254	252	190	442
2007	78	50	128	5	11	16	4	4	8	19	16	35	NA	NA	NA	0	0	0	0	NA	NA	NA	1	4	5	113	107	220	220	192	412
2008	104	60	164	4	7	11	4	5	9	27	19	46	NA	NA	NA	0	2	2	2	NA	NA	NA	7	8	15	116	105	221	262	206	468
2009	80	71	151	7	11	18	3	7	10	31	23	54	NA	NA	NA	0	0	0	0	NA	NA	NA	7	7	14	100	111	211	228	230	458
2010	81	81	162	3	10	13	2	6	8	25	23	48	NA	NA	NA	0	1	1	1	NA	NA	NA	11	7	18	121	79	200	243	207	450
2011	74	67	141	11	23	34	7	2	9	28	22	50	2	2	4	0	0	0	0	3	2	5	5	11	16	120	92	212	250	221	471

(Continued)

Table 10. (Continued)

Year	White <sup>a</sup>			Black or African American <sup>a</sup>			Hispanic or Latino <sup>a</sup>			Asian <sup>a</sup>			Native Hawaiian or Other Pacific Islander <sup>a</sup>			American Indian or Alaska Native <sup>a</sup>			Two or More Races <sup>a</sup>			Unknown <sup>a</sup>			International/Foreign <sup>b</sup>			Total			
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	
2012	82	66	148	11	14	25	7	11	18	34	27	61	1	0	1	1	1	1	2	2	0	2	21	9	30	116	94	210	275	222	497
2013	83	74	157	8	14	22	9	11	20	31	37	68	0	0	0	1	0	1	4	5	9	10	10	20	147	145	292	293	296	589	
2014	103	73	176	11	14	25	4	6	10	26	33	59	0	2	2	0	1	1	2	1	3	8	7	15	144	130	274	298	267	565	
2015	101	70	171	6	12	18	10	3	13	46	44	90	0	0	0	0	1	1	0	2	2	7	3	10	142	114	256	312	249	561	

<sup>a</sup>U.S. citizen or permanent resident

<sup>b</sup>Citizens of a foreign country/permanent residents of a country other than the U.S

NA: Not available

Table 11. Percentage of Master of Science (MS) Degree Recipients 1990-2015 by Race/Ethnicity

Year	White <sup>a</sup> n (%)	Black or African American <sup>a</sup> n (%)	Hispanic or Latino <sup>a</sup> n (%)	Asian <sup>a</sup> n (%)	Native Hawaiian or Other Pacific Islander <sup>a</sup> n (%)	American Indian or Alaska Native <sup>a</sup> n (%)	Two or More Races <sup>a</sup> n (%)	Unknown <sup>a</sup> n (%)	International/ Foreign <sup>b</sup> n (%)
1980	299 (64.3)	10 (2.2)	3 (0.6)	27 (5.8)	NA	0 (0.0)	NA	41 (8.8)	85 (18.3)
1981	305 (70.3)	17 (3.9)	2 (0.5)	14 (3.2)	NA	0 (0.0)	NA	1 (0.2)	95 (21.9)
1982	282 (61.6)	5 (1.1)	6 (1.3)	6 (1.3)	NA	1 (0.2)	NA	27 (5.9)	131 (28.6)
1983	282 (66.2)	2 (0.5)	4 (0.9)	10 (2.3)	NA	0 (0.0)	NA	40 (9.4)	88 (20.7)
1984	254 (64.5)	8 (2.0)	4 (1.0)	16 (4.1)	NA	0 (0.0)	NA	21 (5.3)	91 (23.1)
1985	215 (63.6)	10 (3.0)	3 (0.9)	11 (3.3)	NA	0 (0.0)	NA	1 (0.3)	98 (29.0)
1986	282 (68.0)	6 (1.4)	8 (1.9)	7 (1.7)	NA	1 (0.2)	NA	0 (0.0)	111 (26.7)
1987	231 (66.4)	6 (1.7)	4 (1.1)	11 (3.2)	NA	0 (0.0)	NA	14 (4.0)	82 (23.6)
1988	227 (64.3)	12 (3.4)	4 (1.1)	9 (2.5)	NA	2 (0.6)	NA	2 (0.6)	97 (27.5)
1989	234 (59.8)	8 (2.0)	7 (1.8)	16 (4.1)	NA	0 (0.0)	NA	2 (0.5)	124 (31.7)
1990	209 (54.3)	12 (3.1)	11 (2.9)	28 (7.3)	NA	1 (0.3)	NA	8 (2.1)	116 (30.1)
1991	218 (59.9)	13 (3.6)	7 (1.9)	27 (7.4)	NA	0 (0.0)	NA	2 (0.5)	97 (26.6)
1992	140 (49.6)	14 (5.0)	9 (3.2)	14 (5.0)	NA	0 (0.0)	NA	5 (1.8)	100 (35.5)
1993	149 (49.5)	9 (3.0)	20 (6.6)	13 (4.3)	NA	0 (0.0)	NA	5 (1.7)	105 (34.9)
1994	169 (47.6)	8 (2.3)	13 (3.7)	19 (5.4)	NA	0 (0.0)	NA	5 (1.4)	141 (39.7)
1995	206 (52.6)	16 (4.1)	16 (4.1)	32 (8.2)	NA	0 (0.0)	NA	1 (0.3)	121 (30.9)
1996	236 (55.9)	12 (2.8)	16 (3.8)	23 (5.5)	NA	0 (0.0)	NA	8 (1.9)	127 (30.1)
1997	194 (48.5)	18 (4.5)	17 (4.3)	36 (9.0)	NA	0 (0.0)	NA	5 (1.3)	130 (32.5)
1998	213 (50.6)	14 (3.3)	19 (4.5)	38 (9.0)	NA	1 (0.2)	NA	13 (3.1)	123 (29.2)
1999	173 (45.1)	20 (5.2)	8 (2.1)	31 (8.1)	NA	0 (0.0)	NA	19 (4.9)	133 (34.6)
2000	172 (48.6)	13 (3.7)	13 (3.7)	36 (10.2)	NA	1 (0.3)	NA	2 (0.6)	117 (33.1)
2001	214 (46.4)	26 (5.6)	18 (3.9)	46 (10.0)	NA	1 (0.2)	NA	12 (2.6)	144 (31.2)
2002	181 (40.9)	17 (3.8)	16 (3.6)	43 (9.7)	NA	0 (0.0)	NA	15 (3.4)	171 (38.6)
2003	206 (43.6)	35 (7.4)	11 (2.3)	68 (14.4)	NA	0 (0.0)	NA	16 (3.4)	136 (28.8)
2004	280 (43.0)	51 (7.8)	26 (4.0)	89 (13.7)	NA	1 (0.2)	NA	39 (6.0)	165 (25.3)
2005	270 (43.1)	42 (6.7)	19 (3.0)	80 (12.8)	NA	2 (0.3)	NA	69 (11.0)	144 (23.0)
2006	274 (42.5)	52 (8.1)	28 (4.3)	49 (7.6)	NA	2 (0.3)	NA	57 (8.9)	182 (28.3)
2007	278 (46.0)	49 (8.1)	12 (2.0)	84 (13.9)	NA	2 (0.3)	NA	51 (8.4)	128 (21.2)
2008	318 (43.4)	35 (4.8)	33 (4.5)	75 (10.2)	NA	1 (0.1)	NA	64 (8.7)	206 (28.1)
2009	186 (24.3)	30 (3.9)	11 (1.4)	85 (11.1)	NA	0 (0.0)	NA	75 (9.8)	380 (49.5)
2010	222 (28.7)	22 (2.8)	22 (2.8)	78 (10.1)	NA	1 (0.1)	NA	73 (9.4)	355 (45.9)
2011	235 (28.6)	38 (4.6)	16 (1.9)	78 (9.5)	2 (0.2)	2 (0.2)	1 (0.1)	66 (8.0)	384 (46.7)
2012	217 (31.9)	24 (3.5)	15 (2.2)	81 (11.9)	1 (0.1)	4 (0.6)	3 (0.4)	27 (4.0)	309 (45.4)
2013	183 (27.9)	24 (3.7)	15 (2.3)	72 (11.0)	1 (0.2)	3 (0.5)	7 (1.1)	31 (4.7)	319 (48.7)
2014	204 (26.3)	38 (4.9)	15 (1.9)	75 (9.7)	3 (0.4)	0 (0.0)	5 (0.6)	49 (6.3)	386 (49.8)
2015	207 (28.8)	28 (3.9)	20 (2.8)	84 (11.7)	0 (0.0)	0 (0.0)	8 (1.1)	22 (3.1)	351 (48.8)

<sup>a</sup>US citizen or permanent resident

<sup>b</sup>Citizen of a foreign country/permanent residents of a country other than the US

NA: Not available

Table 12. Percentage of Doctor of Philosophy Degree (PhD) Recipients 1980-2015 by Race/Ethnicity

Year	White <sup>a</sup>	Black or African American <sup>a</sup>	Hispanic or Latino <sup>a</sup>	Asian <sup>a</sup>	Native Hawaiian or Other Pacific Islander <sup>a</sup>	American Indian or Alaska Native <sup>a</sup>	Two or More Races <sup>a</sup>	Unknown <sup>a</sup>	International/Foreign <sup>b</sup>
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
1980	112 (59.3)	3 (1.6)	1 (0.5)	12 (6.3)	NA	0 (0.0)	NA	3 (1.6)	58 (30.7)
1981	133 (73.9)	1 (0.6)	1 (0.6)	8 (4.4)	NA	0 (0.0)	NA	0 (0.0)	37 (20.6)
1982	126 (69.2)	1 (0.5)	1 (0.5)	3 (1.6)	NA	0 (0.0)	NA	1 (0.5)	50 (27.5)
1983	132 (63.5)	0 (0.0)	1 (0.5)	9 (4.3)	NA	0 (0.0)	NA	4 (1.9)	62 (29.8)
1984	135 (59.5)	2 (0.9)	7 (3.1)	13 (5.7)	NA	0 (0.0)	NA	6 (2.6)	64 (28.2)
1985	140 (60.3)	2 (0.9)	2 (0.9)	10 (4.3)	NA	1 (0.4)	NA	0 (0.0)	77 (33.2)
1986	160 (61.5)	2 (0.8)	1 (0.4)	6 (2.3)	NA	0 (0.0)	NA	0 (0.0)	91 (35.0)
1987	162 (57.2)	2 (0.7)	4 (1.4)	13 (4.6)	NA	0 (0.0)	NA	8 (2.8)	94 (33.2)
1988	145 (55.1)	2 (0.8)	3 (1.1)	6 (2.3)	NA	0 (0.0)	NA	2 (0.8)	105 (39.9)
1989	154 (53.7)	4 (1.4)	4 (1.4)	10 (3.5)	NA	0 (0.0)	NA	6 (2.1)	109 (38.0)
1990	151 (55.3)	7 (2.6)	1 (0.4)	24 (8.8)	NA	0 (0.0)	NA	8 (2.9)	82 (30.0)
1991	168 (53.7)	8 (2.6)	3 (1.0)	26 (8.3)	NA	0 (0.0)	NA	5 (1.6)	103 (32.9)
1992	138 (43.5)	8 (2.5)	4 (1.3)	21 (6.6)	NA	0 (0.0)	NA	4 (1.3)	142 (44.8)
1993	160 (46.0)	5 (1.4)	3 (0.9)	20 (5.7)	NA	1 (0.3)	NA	0 (0.0)	159 (45.7)
1994	150 (46.9)	6 (1.9)	4 (1.3)	25 (7.8)	NA	0 (0.0)	NA	2 (0.6)	133 (41.6)
1995	148 (42.3)	10 (2.9)	5 (1.4)	33 (9.4)	NA	2 (0.6)	NA	4 (1.1)	148 (42.3)
1996	135 (44.4)	9 (3.0)	5 (1.6)	23 (7.6)	NA	0 (0.0)	NA	3 (1.0)	129 (42.4)
1997	145 (40.5)	10 (2.8)	3 (0.8)	25 (7.0)	NA	0 (0.0)	NA	7 (2.0)	168 (46.9)
1998	166 (40.4)	14 (3.4)	6 (1.5)	32 (7.8)	NA	2 (0.5)	NA	4 (1.0)	187 (45.5)
1999	131 (36.5)	13 (3.6)	6 (1.7)	39 (10.9)	NA	0 (0.0)	NA	15 (4.2)	155 (43.2)
2000	123 (38.1)	11 (3.4)	0 (0.0)	38 (11.8)	NA	0 (0.0)	NA	20 (6.2)	131 (40.6)
2001	129 (34.4)	15 (4.0)	6 (1.6)	54 (14.4)	NA	0 (0.0)	NA	4 (1.1)	167 (44.5)
2002	151 (40.2)	8 (2.1)	5 (1.3)	27 (7.2)	NA	2 (0.5)	NA	7 (1.9)	176 (46.8)
2003	139 (36.2)	13 (3.4)	9 (2.3)	32 (8.3)	NA	0 (0.0)	NA	5 (1.3)	186 (48.4)
2004	114 (34.0)	11 (3.3)	5 (1.5)	31 (9.3)	NA	0 (0.0)	NA	4 (1.2)	170 (50.7)
2005	109 (25.4)	19 (4.4)	8 (1.9)	35 (8.2)	NA	2 (0.5)	NA	6 (1.4)	250 (58.3)
2006	127 (28.7)	17 (3.8)	8 (1.8)	34 (7.7)	NA	0 (0.0)	NA	2 (0.5)	254 (57.5)
2007	128 (31.1)	16 (3.9)	8 (1.9)	35 (8.5)	NA	0 (0.0)	NA	5 (1.2)	220 (53.4)
2008	164 (35.0)	11 (2.4)	9 (1.9)	46 (9.8)	NA	2 (0.4)	NA	15 (3.2)	221 (47.2)
2009	151 (33.0)	18 (3.9)	10 (2.2)	54 (11.8)	NA	0 (0.0)	NA	14 (3.1)	211 (46.1)
2010	162 (36.0)	13 (2.9)	8 (1.8)	48 (10.7)	NA	1 (0.2)	NA	18 (4.0)	200 (44.4)
2011	141 (29.9)	34 (7.2)	9 (1.9)	50 (10.6)	4 (0.8)	0 (0.0)	5 (1.1)	16 (3.4)	212 (45.0)
2012	148 (29.8)	25 (5.0)	18 (3.6)	61 (12.3)	1 (0.2)	2 (0.4)	2 (0.4)	30 (6.0)	210 (42.3)
2013	157 (26.7)	22 (3.7)	20 (3.4)	68 (11.5)	0 (0.0)	1 (0.2)	9 (1.5)	20 (3.4)	292 (49.6)
2014	176 (31.2)	25 (4.4)	10 (1.8)	59 (10.4)	2 (0.4)	1 (0.2)	3 (0.5)	15 (2.7)	274 (48.5)
2015	171 (30.5)	18 (3.2)	13 (2.3)	90 (16.0)	0 (0.0)	1 (0.2)	2 (0.4)	10 (1.8)	256 (45.6)

<sup>a</sup>U.S. citizen or permanent resident

<sup>b</sup>Nonpermanent resident/citizen of a country other than the United States

Table 13. Summary of Enrollments in First Professional Degree Programs 1980-2015

Year	First Professional Year Classes, <sup>a</sup>	All Professional Years, <sup>b</sup>	Total Enrollment,
	No. (% Change)	No. (% Change)	No. (% Change)
1980	7377	22093	26617
1981	6927 (-6.1)	20 468 (-7.4)	24 658 (-7.4)
1982	6609 (-4.6)	19 350 (-5.5)	23 410 (-5.1)
1983	6635 (0.4)	18 831 (-2.7)	23 091 (-1.4)
1984	6986 (5.3)	18 646 (-1.0)	23 312 (1.0)
1985	7091 (1.5)	19 098 (2.4)	24 820 (6.5)
1986	7554 (6.5)	20 073 (5.1)	25 643 (3.3)
1987	7751 (2.6)	21 424 (6.7)	27 292 (6.4)
1988	7990 (3.1)	22 447 (4.8)	28 891 (5.9)
1989	8033 (0.5)	23 013 (2.5)	29 560 (2.3)
1990	8267 (2.9)	23 238 (1.0)	29 797 (0.8)
1991	8343 (0.9)	23 482 (1.1)	30 314 (1.7)
1992	8664 (3.8)	26 287 (NA)	31 519 (4.0)
1993	8970 (3.5)	27 143 (3.3)	32 938 (4.5)
1994	9157 (2.1)	27 667 (1.9)	33 353 (1.3)
1995	8740 (-4.6)	28 060 (1.4)	33 415 (0.2)
1996	9561 (9.4)	28 027 (-0.1)	33 059 (-1.1)
1997	8571 (-10.4)	28 345 (1.1)	32 529 (-1.6)
1998	8346 (-2.6)	28 568 (0.8)	33 090 (1.7)
1999	8123 (-2.7)	29 586 (3.6)	32 537 (-1.7)
2000	8382 (3.2)	30 301 (2.4)	34 481 (6.0)
2001	8922 (6.4)	31 769 (4.8)	35 885 (4.1)
2002	9128 (2.3)	33 437 (5.3)	38 902 (8.4)
2003	9909 (8.6)	36 454 (9.0)	41 762 (10.7)
2004	10 437 (5.3)	38 544 (5.7)	43 908 (— <sup>c</sup> )
2005	10 506 (0.7)	41 165 (6.8)	46 527 (6.0)
2006	10 992 (4.6)	43 106 (4.7)	48 592 (4.4)
2007	11 533 (4.9)	45 594 (5.8)	50 691 (4.3)
2008	12 379 (7.1)	47 986 (5.2)	52 685 (3.9)
2009	12 705 (2.6)	49 964 (4.1)	54 710 (3.8)
2010	13 077 (2.9)	51 920 (3.9)	56 841 (3.9)
2011	13 464 (3.0)	54 054 (4.1)	58 915 (3.6)
2012	14 011 (4.1)	56 489 (4.5)	61 275 (4.0)
2013	14 008 (0.0)	58 121 (2.9)	62 743 (2.4)
2014	14 276 (1.9)	59 370 (2.1)	63 927 (1.9)
2015	14 190 (-0.6)	59 720 (0.6)	63 460 (-0.7)

<sup>a</sup>Includes second from last year for baccalaureate and third from last year for PharmD1 and does not include first year enrollees in accelerated programs from 1980-2005. Includes third from last year PharmD1 beginning in 2006

<sup>b</sup>Includes the final three years only of all first professional degree programs for 1980-1991; includes all professional years for 1992-present (3 years for baccalaureate and 4 years for PharmD)

<sup>c</sup>Not able to calculate percent change due to change in how data are reported by select institutions

Table 14. Summary of Enrollments in First Professional Degree Programs by Gender 1980-2015

Year	Male		Female		Total Enrollment	
	No. (%)	% Change from Previous Year	No. (%)	% Change from Previous Year	No.	% Change from Previous Year
1980	13 992 (52.6)		12 625 (47.4)		26 617	
1981	12 413 (50.3)	-11.3	12 245 (49.7)	-3.0	24 658	-7.4
1982	11 271 (48.1)	-9.2	12 139 (51.9)	-0.9	23 410	-5.1
1983	10 984 (47.6)	-2.5	12 107 (52.4)	-0.3	23 091	-1.4
1984	10 345 (44.4)	-5.8	12 967 (55.6)	7.1	23 312	1.0
1985	10 685 (43.0)	3.3	14 135 (57.0)	9.0	24 820	6.5
1986	10 628 (41.4)	-0.5	15 015 (58.6)	6.2	25 643	3.3
1987	10 907 (40.0)	2.6	16 385 (60.0)	9.1	27 292	6.4
1988	11 382 (39.4)	4.4	17 509 (60.6)	6.9	28 891	5.9
1989	11 350 (38.4)	-0.3	18 210 (61.6)	4.0	29 560	2.3
1990	11 198 (37.6)	-1.3	18 599 (62.4)	2.1	29 797	0.8
1991	11 219 (37.0)	0.2	19 095 (63.0)	2.7	30 314	1.7
1992	11 543 (36.6)	2.9	19 976 (63.4)	4.6	31 519	4.0
1993	12 117 (36.8)	5.0	20 821 (63.2)	4.2	32 938	4.5
1994	12 243 (36.7)	1.0	21 110 (63.3)	1.4	33 353	1.3
1995	12 221 (36.6)	-0.2	21 194 (63.4)	0.4	33 415	0.2
1996	11 966 (36.2)	-2.1	21 093 (63.8)	-0.5	33 059	-1.1
1997	11 652 (35.8)	-2.6	20 877 (64.2)	-1.0	32 529	-1.6
1998	11 777 (35.6)	1.1	21 313 (64.4)	2.1	33 090	1.7
1999	11 411 (35.1)	-3.1	21 126 (64.9)	-0.9	32 537	-1.7
2000	11 763 (34.1)	3.1	22 718 (65.9)	7.5	34 481	6.0
2001	12 253 (34.1)	4.2	23 632 (65.9)	4.0	35 885	4.1
2002	12 815 (33.0)	4.6	26 087 (67.0)	9.1	38 902	8.4
2003	13 874 (33.2)	11.3	27 888 (66.8)	10.3	41 762	10.7
2004 <sup>a</sup>	14 696 (33.5)	—	29 212 (66.5)	—	43 908	—
2005	16 069 (34.5)	9.3	30 458 (65.5)	4.3	46 527	6.0
2006 <sup>b</sup>	17 397 (35.8)	8.3	31 195 (64.2)	2.4	48 592	4.4
2007	18 735 (37.0)	7.7	31 956 (63.0)	2.4	50 691	4.3
2008	19 896 (37.8)	6.2	32 744 (62.2)	2.5	52 685	3.9
2009	21 158 (38.7)	6.3	33 552 (61.3)	2.5	54 710	3.8
2010	22 194 (39.0)	4.9	34 647 (61.0)	3.3	56 841	3.9
2011	23 100 (39.2)	4.1	35 815 (60.8)	3.4	58 915	3.6
2012	23 900 (39.0)	3.5	37 375 (61.0)	4.4	61 275	4.0
2013	24 326 (38.8)	1.8	38 417 (61.2)	2.8	62 743	2.4
2014	24 655 (38.6)	1.4	39 272 (61.4)	2.2	63 927	1.9
2015	24 476 (38.6)	(-0.7)	38 984 (61.4)	(-0.7)	63 460	-0.7

<sup>a</sup>Not able to calculate percent change due to change in how data is reported by select institutions

<sup>b</sup>Includes only PharmD1 degrees beginning in 2006



Table 15. Summary of Enrollments in First Professional Degree Programs by Race/Ethnicity 1980-2015

Year	Black or African American <sup>a</sup>	Hispanic or Latino <sup>a</sup>			Asian <sup>a</sup>			Native Hawaiian or Other Pacific Islander <sup>a</sup>			American Indian or Alaska Native <sup>a</sup>	Two or More Races <sup>a</sup>	% Change From Previous Year
		% Change From Previous Year	Hispanic or Latino <sup>a</sup>	% Change From Previous Year	Asian <sup>a</sup>	% Change From Previous Year	Native Hawaiian or Other Pacific Islander <sup>a</sup>	% Change From Previous Year					
1980 <sup>b</sup>	945	934	1035	NA	NA	36	NA	36	NA	NA	NA	NA	
1981 <sup>b</sup>	932	787	1040	0.5	NA	38	NA	38	5.6	NA	NA	NA	
1982 <sup>b</sup>	935	784	1072	3.1	NA	36	NA	36	-5.6	NA	NA	NA	
1983 <sup>b</sup>	1019	787	922	-14.0	NA	42	NA	42	16.7	NA	NA	NA	
1984 <sup>b</sup>	1098	763	1086	17.8	NA	37	NA	37	-11.9	NA	NA	NA	
1985	1664	927	1410	NA	NA	42	NA	42	NA	NA	NA	NA	
1986	1647	1018	1740	23.4	NA	39	NA	39	-7.1	NA	NA	NA	
1987	1729	1055	2000	14.9	NA	45	NA	45	15.4	NA	NA	NA	
1988	1891	1089	2362	18.1	NA	78	NA	78	73.3	NA	NA	NA	
1989	1983	1096	2706	14.6	NA	81	NA	81	3.8	NA	NA	NA	
1990	2103	1118	3346	23.7	NA	85	NA	85	4.9	NA	NA	NA	
1991	2395	1055	3540	5.8	NA	98	NA	98	15.3	NA	NA	NA	
1992	2340	1088	4135	16.8	NA	96	NA	96	-2.0	NA	NA	NA	
1993	2380	1143	4731	14.4	NA	128	NA	128	33.3	NA	NA	NA	
1994	2582	1171	5408	14.3	NA	128	NA	128	0.0	NA	NA	NA	
1995	2548	1150	5695	5.3	NA	151	NA	151	18.0	NA	NA	NA	
1996	2529	1140	6152	8.0	NA	147	NA	147	-2.6	NA	NA	NA	
1997	2632	1130	6451	4.9	NA	150	NA	150	2.0	NA	NA	NA	
1998	2757	1157	6741	4.5	NA	160	NA	160	6.7	NA	NA	NA	
1999	2697	1086	6414	-4.9	NA	156	NA	156	-2.5	NA	NA	NA	
2000	3132	1255	7392	15.2	NA	137	NA	137	-12.2	NA	NA	NA	
2001	3407	1322	7405	0.2	NA	179	NA	179	30.7	NA	NA	NA	
2002	3826	1466	8263	11.6	NA	168	NA	168	-6.1	NA	NA	NA	
2003	4183	1605	8991	8.8	NA	191	NA	191	13.7	NA	NA	NA	
2004 <sup>c</sup>	3784	1691	9103	—	NA	210	NA	210	—	NA	NA	NA	
2005	3703	1778	9690	6.1	NA	234	NA	234	11.4	NA	NA	NA	
2006 <sup>d</sup>	3275	1888	10 312	6.4	NA	220	NA	220	-6.0	NA	NA	NA	
2007	3229	2044	10 974	6.4	NA	248	NA	248	12.7	NA	NA	NA	
2008	3395	2186	11 638	6.1	NA	263	NA	263	6.0	NA	NA	NA	
2009	3581	2278	12 497	7.4	NA	264	NA	264	0.4	NA	NA	NA	
2010	3711	2369	13 666	9.4	NA	259	NA	259	-1.9	NA	NA	NA	
2011 <sup>c</sup>	3964	2317	14 124	—	264	205	—	205	—	629	—	—	

(Continued)

Table 15. (Continued)

Year	Black or African American <sup>a</sup>	% Change From Previous Year	Hispanic or Latino <sup>a</sup>	% Change From Previous Year	Asian <sup>a</sup>	% Change From Previous Year	Native			% Change From Previous Year	Two or More Races <sup>a</sup>	% Change From Previous Year
							Hawaiian or Other Pacific Islander <sup>a</sup>	American Indian or Alaska Native <sup>a</sup>	% Change From Previous Year			
2012	4226	6.6	2537	9.5	14 441	2.2	594	238	125.0	968	53.9	
2013	4376	3.5	2681	5.7	15 438	6.9	203	222	-65.8	1172	21.1	
2014	4690	7.2	2907	8.4	15 955	3.3	152	205	-25.1	1370	16.9	
2015	5031	7.3	3185	9.6	16 073	0.7	231	194	52.0	1491	8.8	

<sup>a</sup>US citizen or permanent resident

<sup>b</sup>Totals for 1980-1984 are for enrollments in final three years of program only

<sup>c</sup>Not able to calculate percent change due to change in how data are reported

<sup>d</sup>Includes BS Pharmacy BPharm and PharmD1 from 1980-2005. Includes only PharmD1 beginning in 2006

NA=not available

Table 16. Summary of Master of Science (MS) and Doctor of Philosophy (PhD) Fall 2015 Full-Time Enrollments by Gender and Discipline

Discipline	MS Degree				PhD Degree			
	M	F	T	% of MS Program Enrollments	M	F	T	% of PhD Program Enrollments
Medicinal Chemistry	38	46	84	7.5	461	328	789	24.0
Pharmacology	73	113	186	16.5	268	296	564	17.1
Social and Administrative Sciences	129	148	277	24.6	150	181	331	10.0
Pharmacy Practice	43	62	105	9.3	50	60	110	3.3
Pharmaceutics	170	243	413	36.6	654	570	1224	37.2
Other <sup>a</sup>	25	37	62	5.5	160	116	276	8.4
Total	478	649	1127		1743	1551	3294	

<sup>a</sup>Includes Pharmacy Studies, Immunology, Pharmaceutical and Biomedical Sciences, Biomedical Sciences/Nanotechnology, Undecided, and Pharmaceutical/Chemical Product Development for MS programs and Bioengineering/Biophysics/Biological & Medical Informatics, Pharmacotherapy & Translational Research, Pharmaceutical & Biomedical Science, Neuroscience, Translational Science, Translational Science & Psychology, Pharmacotherapy Outcomes & Health Research, and Pharmaceutical & Pharmacological Sciences for PhD programs

Table 17. Fall 2015 Enrollments in PhD Programs by Type of Enrollment (Full-Time, Part-Time), Discipline, and Source of Previous Degree Earned<sup>a</sup>

	US School		Canadian School		Foreign School		All Schools	
	Pharm	Non-pharm	Pharm	Non-pharm	Pharm	Non-pharm	Pharm	Non-pharm
Full-Time								
Medicinal Chemistry	48	359	0	0	156	124	204	483
Pharmacology	39	226	0	1	158	91	197	318
Social and Admin. Sciences	50	73	2	1	117	42	169	116
Pharmacy Practice	20	33	0	0	41	14	61	47
Pharmaceutics	112	300	0	2	364	228	476	530
Other	9	53	0	0	14	17	23	70
Total full-time	278	1044	2	4	850	516	1130	1564
Part-Time								
Medicinal Chemistry	1	7	0	0	2	2	3	9
Pharmacology	5	22	0	0	3	0	8	22
Social and Admin. Sciences	2	9	0	0	2	1	4	10
Pharmacy Practice	2	0	0	0	0	0	2	0
Pharmaceutics	3	6	0	0	9	5	12	11
Other	0	0	0	0	0	0	0	0
Total part-time	13	44	0	0	16	8	29	52

<sup>a</sup>Includes only those students for whom source of degree was reported