

PROFILE OF PHARMACY STUDENTS

Fall 2014

2013–14 Application Pool

Degrees Conferred 2013–14

- professional degrees
- graduate degrees

Fall 2014 Enrollments

- professional degrees
- graduate degrees

The AACP institutional research data-gathering and analysis system has been designed to collect and report information related to the U.S. pharmacy colleges and schools including more than 6,600 faculty, 64,800 students enrolled in professional programs, and 4,900 individuals pursuing graduate study. The system can efficiently provide information to characterize the pharmacy education enterprise and its constituents, to study trends, and to assist pharmacy college and school administrators, organizations in higher education, and the government in decision making with regard to pharmacy and health education. For additional information regarding the AACP's Office of Institutional Research and Effectiveness, contact the Association's Director of Institutional Research and Effectiveness.

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PROFILE OF PHARMACY STUDENTS FALL 2014

INTRODUCTION

The annual *Profile of Pharmacy Students* provides data on applications to first professional degree programs and degrees conferred and student enrollment in professional and graduate degree programs at the 133 U.S. colleges and schools of pharmacy with accredited (full, candidate and precandidate status) professional degree programs as of fall 2014. This *Profile* presents data describing:

- the pharmacy application pool for 2013–14 (i.e., applications for admission in fall 2014);
- degrees conferred data 2013–14 and related long-term trends; and
- student enrollments for fall 2014 and related long-term trends.

In this report:

- **Pharm.D.1** refers to the doctor of pharmacy degree awarded as the first professional degree.
- **Pharm.D.2** refers to a postbaccalaureate degree.
- **First professional degrees** refer to the total of baccalaureates (B.S. in pharmacy, B.Pharm.) plus Pharm.D.1 degrees.
- **White** refers to 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.
- **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/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.
- **International/Foreign** refers to citizens of a foreign country/ permanent residents of a country other than the U.S.

June 30, 2005 marked the official expiration of the ACPE standards for baccalaureate in pharmacy (B.S. Pharmacy) degree programs, in accordance with the transition to the Doctor of Pharmacy (Pharm.D.) as the sole accredited professional degree program in the United States. Some colleges/schools of pharmacy conferred degrees in the B.S. Pharmacy program until 2004-05. For longitudinal and school-specific tables regarding this degree program please contact the Association's Director of Institutional Research and Effectiveness.

METHODS

The data in this *Profile* were gathered using five separate online survey instruments in October 2014. Submission of data was requested by December 12, 2014.

The 2013–14 Application Pool Survey requested information on applicants who applied for admission, and submitted all required application materials during the academic year September 2013 to August 2014 for the class entering fall 2014. One hundred and thirty-one (98.5 percent response) submitted data. Numbers reported represent the number of applications, not applicants, and may represent multiple applications submitted by individual applicants.

The *Undergraduate and Professional Pharmacy Degrees Conferred Survey 2013–14* and the *Graduate Pharmacy Degrees Conferred Survey 2013–14* were completed by one hundred and thirty-two institutions (99.2 percent response).

The *Enrollment Survey—Fall 2014 Professional Pharmacy Degree Programs* and the *Enrollment Survey—Fall 2014 Graduate Degree Programs in the Pharmaceutical Sciences* were completed by one hundred and thirty-two institutions (99.2 percent response).

ACKNOWLEDGMENT

The American Association of Colleges of Pharmacy wishes to express its appreciation to the deans of its member institutions and members of their faculty and staff who completed the surveys. The nearly 100% percent return for all of the surveys is testimony to the institutions' commitment to the goals of this report.

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HIGHLIGHTS

In 2013–14, there were 85,754 applications submitted to first professional degree programs at schools and colleges of pharmacy.

The number of Pharm.D. as a first professional degrees awarded increased to 13,838 in 2014 compared to 13,207 in 2013. This is the largest number of degrees conferred in the history of pharmacy education.

The attrition rate for the class of 2014 was 10.3%. The attrition rate includes academic dismissals, student withdrawals, and delayed graduations.

Enrollments in all professional years rose 2.1 percent. The number of first professional year enrollments increased 1.9 percent.

The number of Pharm.D. degrees conferred to individuals already holding a professional baccalaureate in pharmacy decreased slightly to 339 in 2014 compared to 344 in 2013. The number of individuals enrolled in postbaccalaureate Pharm.D. programs decreased to 935 from 1,118 enrolled in fall 2013.

The number of M.S. degrees conferred increased 18.3 percent in 2013-14 and the number of Ph.D. degrees conferred decreased 4.1 percent.

SUMMARY

2013-14 APPLICATION POOL

- From September 2013 through August 2014, one hundred and thirty-one (131) colleges and schools reported receiving 85,754 applications to the Doctor of Pharmacy (Pharm.D.1) as the first professional degree programs.
- 5.5 applications were received by colleges and schools of pharmacy for every one entering student enrolled in fall 2014.
- The majority (59.3 percent) of the applications were submitted by females; 39.2 percent were submitted by males. The gender was not reported or unknown for 1.5 percent.
- Underrepresented minorities submitted 17.3 percent of the applications (black, 11.0 percent; Hispanic, 5.9 percent; Native Hawaiian or Other Pacific Islander, 0.2 percent; American Indian, 0.2 percent). Applications submitted from students that identify as two or more races totaled 2.5 percent.
- Nearly 76 percent (75.9 percent) of the applications to colleges and schools were submitted by individuals who had 3 or more years of postsecondary education: 10.7 percent had completed 3 or more years of postsecondary education without earning a degree; 61.2 percent held a baccalaureate; 3.0 percent held a master's degree; and 1.0 percent held a doctoral degree.
- The majority (56.0 percent) of applications received by colleges and schools of pharmacy were submitted by out-of-state residents.

PROFESSIONAL (Pharm.D.) DEGREES CONFERRED 2013-14

- The total number of first professional degrees conferred (N=13,838) increased 4.8 percent from 2012–13.
- Women received 60.4 percent of the first professional degrees conferred; men received 39.6 percent.
- White Americans received the majority of Pharm.D.1 degrees (54.7 percent). Underrepresented minorities received 11.7 percent (black, 6.8 percent; Hispanic, 4.4 percent; Native Hawaiian or Other Pacific Islander, 0.2 percent; American Indian, 0.3 percent). Degree recipients that identified as two or more races received 1.3 percent of all Pharm.D.1 degrees. Asian Americans received 24.1 percent of the Pharm.D.1 degrees. The percentage of Pharm.D.1 degree recipients who were foreign, nonpermanent residents of the U.S. was 2.2 percent, which remained flat from 2012–13.
- The number of Pharm.D.2 degrees conferred (n=339) decreased by 1.5 percent from 2012–13.
- More women than men received Pharm.D.2 degrees: women, 67.6 percent; men, 32.4 percent.
- The percentage of Pharm.D.2 degree recipients who were foreign, nonpermanent residents of the U.S. was 10.0, down from 19.8 percent in 2012–13.

GRADUATE DEGREES (M.S. and Ph.D.) CONFERRED 2013–14

- The number of M.S. degrees (n=775) increased 18.3 percent from 2012–13.
- The number of Ph.D. degrees (n=565) decreased 4.1 percent from 2012–13.
- More women than men earned M.S. degrees (women, 56.1 percent; men, 43.9 percent) in 2013–14; however, more men earned Ph.D. degrees (women, 47.3 percent; men, 52.7 percent). There have only been two years (2008-09 and 2012–13) in which women earned more Ph.D. degrees than men.
- Underrepresented minorities received 7.2 percent of the M.S. degrees (black, 4.9 percent; Hispanic, 1.9 percent; Native Hawaiian or Other Pacific Islander, 0.4 percent; American Indian, 0.0 percent), up from 6.6 percent in 2012-13. Degree recipients that identified as two or more races received 0.6 percent of all M.S. degrees and Asian Americans received 9.7 percent of the M.S. degrees. The percentage of M.S. degree recipients who were foreign, nonpermanent residents of the U.S. was 49.8 percent, up slightly from 48.7 percent in 2012-13.
- By discipline, the most M.S. degrees conferred were in pharmaceuticals (34.2 percent). The next highest percentage was in social and administrative sciences (20.4 percent), followed by pharmacology (17.7 percent), other discipline (12.3 percent), medicinal chemistry (8.3 percent), and pharmacy practice (7.2 percent).
- Underrepresented minorities earned 6.7 percent of the Ph.D. degrees (black, 4.4 percent; Hispanic, 1.8 percent; Native Hawaiian or Other Pacific Islander, 0.4 percent; American Indian, 0.2 percent), a decrease from 7.3 percent in 2012–13. Degree recipients that identified as two or more races received 0.5 percent of all Ph.D. degrees conferred and Asian Americans earned 10.4 percent. The percentage of Ph.D. degree recipients who were foreign, nonpermanent residents of the U.S. was 48.5, down slightly from 49.6 percent in 2012–13.
- By discipline, the most Ph.D. degrees conferred were in pharmaceuticals (33.3 percent). The next highest percentage was in medicinal chemistry (24.4 percent), followed by pharmacology (17.9 percent), social and administrative sciences (10.4 percent), other discipline (9.9 percent), and pharmacy practice (4.1 percent).

FALL 2014 ENROLLMENTS

- 63,927 students were enrolled in the Doctor of Pharmacy (Pharm.D.1) as the first professional degree programs.
- There was a 2.1 percent increase from fall 2013 in enrollments in the professional years (includes four years for Pharm.D.) of the Pharm.D.1 degree program.
- Underrepresented minorities accounted for 12.4 percent of Pharm.D.1 degree enrollments (black, 7.3 percent; Hispanic, 4.5 percent; Native Hawaiian or Other Pacific Islander, 0.2 percent; American Indian 0.3 percent) in fall 2013. Students that identified as two or more races accounted for 2.1 percent of all first professional degree enrollments.
- The number of Pharm.D.2 students enrolled (n=935) decreased by 16.4 percent from fall 2013.
- There were 60 students enrolled in traditional full-time Pharm.D.2 degree programs in fall 2014. There were an additional 875 students enrolled in nontraditional programs in fall 2014.
- At the M.S. and Ph.D. levels the greatest numbers of full-time students were enrolled in the discipline of pharmaceuticals (36.2 percent and 35.4 percent, respectively).
- More females than males were enrolled full-time in M.S. programs, while more males than females were enrolled full-time in Ph.D. programs. Females accounted for 56.3 percent of full-time students in M.S. programs and 47.0 percent of full-time students in Ph.D. programs.
- The percentage of full-time M.S. students who were underrepresented minorities (black, 2.7 percent; Hispanic, 2.2 percent; Native Hawaiian or Other Pacific Islander, 0.6 percent; American Indian, 0.1 percent) increased from 5.0 percent in fall 2013 to 5.6 percent in fall 2014. 1.1 percent of all M.S. full-time enrollments were students that identified as two or more races.
- The percentage of full-time Ph.D. students who were underrepresented minorities (black, 3.8 percent; Hispanic, 2.3 percent; Native Hawaiian or Other Pacific Islander, 0.3 percent; American Indian, 0.3 percent) decreased from 7.7 percent in fall 2013 to 6.7 percent in fall 2014. 0.6 percent of all Ph.D. full-time enrollments were students that identified as two or more races.

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