

American Association of  
**Colleges of Pharmacy**  
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**AAACP**



# American Association of Colleges of Pharmacy Graduating Student Survey

## 2018 Public School Summary Report

July 2018

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Total number of schools: 64  
 Total number of responses: 5,518  
 Response Rate: 78.3%

### Section I: Demographic Information

**1. Which of the following choice(s) describes the primary area of your paid outside work experiences while in the college/school?**

	Response Percent	Response Total
Community pharmacy	N/A	3771
Institutional pharmacy	N/A	1241
Other pharmacy related; please specify:	N/A	495
Non-pharmacy related: please specify:	N/A	369
I did not work (Skip to number 3)	N/A	582

**2. If you had paid employment please indicate the approximate number of hours you worked per week.**

	Response Percent	Response Total
Less than 10 hours	32.8%	1621
10 to 14 hours	32.5%	1604
15 to 19 hours	18.8%	930
20 to 29 hours	9.9%	490
30 or more hours	4.1%	200
No answer	1.8%	91

**3. Please indicate any college degrees you had earned prior to entering the Doctor of Pharmacy program. (Check all that apply)**

	Response Percent	Response Total
Did not have a degree prior to entering program	N/A	1953
Associate's	N/A	562
B.S., B.A. or Other Bachelor's	N/A	3112
Master's; please specify type:	N/A	121
JD or Other Law	N/A	5
Ph.D.	N/A	13
M.D., D.D.S. or other Professional Doctorate	N/A	6
Other Doctorate	N/A	10

**4(a). What are your current plans for primary employment upon your graduation from the college/school of pharmacy? (Check all that apply)**

	<b>Response Percent</b>	<b>Response Total</b>
Chain community pharmacy	N/A	2619
Independent community pharmacy	N/A	983
Hospital	N/A	2522
Clinic-based pharmacy	N/A	908
Consultant	N/A	245
Home care	N/A	100
Nursing home/Long-term care facility	N/A	293
Academia	N/A	335
Association management	N/A	27
Pharmaceutical industry	N/A	378
Managed Care	N/A	254
Government or regulatory agency	N/A	224
Other Pharmacy Related Field; please specify:	N/A	305
Non-pharmacy related field; please specify:	N/A	36
No plans for employment in the coming year	N/A	177

**4(b). What are your current plans upon your graduation from the college/school of pharmacy? (Check all that apply)**

	<b>Response Percent</b>	<b>Response Total</b>
Pharmacy Residency Program	N/A	1948
Pharmacy Ph.D. Program	N/A	120
Master's; please specify type:	N/A	228
JD or Other Law Program	N/A	19
Other Health Professions (MD, DDS, DVM, etc.)	N/A	59
Non-Pharmacy Ph.D. Program	N/A	21
Fellowship	N/A	203
No Plans for Further Education in the coming year	N/A	3083

**5. Have you borrowed money to help pay for your college expenses in the Pharm.D. degree program?**

	<b>Response Percent</b>	<b>Response Total</b>
Yes	83.0%	4582
No (Skip to number 7)	17.0%	936

**6. If you borrowed to help pay for your college expenses in the Pharm.D. degree program, please estimate how much you will owe at date of graduation:**

Average amount borrowed (public schools): \$137,356

Median amount borrowed (public schools): \$130,000

**7(a). How do you describe yourself?**

	<b>Response Percent</b>	<b>Response Total</b>
Female	62.3%	3440
Trans Female/Trans Woman	0.1%	3
Male	35.4%	1954
Trans Male/Trans Man	0.0%	2
Different Identity; please specify:	0.2%	13
Prefer not to disclose	1.9%	106

**7(b). Do you consider yourself to be:**

	<b>Response Percent</b>	<b>Response Total</b>
Heterosexual or Straight	91.3%	5039
Gay or Lesbian	2.5%	137
Bisexual	1.5%	85
Not listed above; please specify:	0.3%	17
Prefer not to disclose	4.3%	240

**8. Age**

	<b>Response Percent</b>	<b>Response Total</b>
25 or under	43.8%	2418
26 - 30	42.6%	2353
31 - 35	7.4%	406
36 - 40	2.4%	135
41 - 45	1.3%	70
46 - 50	0.5%	28
51 or above	0.2%	12
Prefer not to respond	1.7%	96

**Section II: Required Interprofessional Education**

**9. What required curricular activities (didactic or experiential) did you participate in where you had the opportunity to learn with other health professions students? (Check all that apply).**

	Response Percent	Response Total
Lectures	N/A	3634
Patient-centered case problems	N/A	4143
Clinical simulations	N/A	3733
Active engagement with patients	N/A	3230
Community projects, service learning	N/A	2994
Team skills training	N/A	2713
Online coursework	N/A	1926
Clinical Labs	N/A	2186
IPPE	N/A	3730
APPE	N/A	4909
Research or Capstone projects	N/A	1179
Other; please specify:	N/A	92
Did not participate in any required interprofessional education activities	N/A	50

**10. With which other professions students have you had the opportunity to participate or interact in required educational activities as indicated above? (Check all that apply).**

	Response Percent	Response Total
Dentistry	N/A	1967
Nursing	N/A	4829
Occupational therapy	N/A	1642
Osteopathic medicine (DO)	N/A	1424
Allopathic medicine (MD)	N/A	3268
Physical therapy	N/A	2540
Physician assistant	N/A	2334
Psychology	N/A	692
Public health	N/A	1006
Social work	N/A	2501
Veterinary medicine	N/A	420
Other ; please specify:	N/A	334
Did not participate in any required interprofessional education activities	N/A	163

**Please indicate the degree to which you agree or disagree with the statement below.**

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
11. The learning experience with other professions students helped me gain a better understanding of how to be part of a multi-disciplinary team to improve patient outcomes.	38.3% (2114)	<b>52.1%</b> <b>(2877)</b>	4.3% (238)	2.1% (118)	3.1% (171)

**Section III: Professional Competencies/Outcomes/Curriculum****Domain 1: Foundational Knowledge**

	<b>Strongly Agree</b>	<b>Agree</b>	<b>Disagree</b>	<b>Strongly Disagree</b>	<b>Unable to Comment</b>
12. Apply knowledge from the foundational pharmaceutical and biomedical sciences to the provision of patient care.	43.6% (2407)	<b>52.9%</b> <b>(2920)</b>	2.1% (116)	0.7% (36)	0.7% (39)
13. Apply knowledge from the clinical sciences to the provision of patient care.	<b>49.0%</b> <b>(2702)</b>	48.4% (2672)	1.5% (82)	0.5% (28)	0.6% (34)
14. Evaluate scientific literature.	41.7% (2303)	<b>53.0%</b> <b>(2924)</b>	3.5% (195)	1.1% (61)	0.6% (35)

**Domain 2: Essentials for Practice**

	<b>Strongly Agree</b>	<b>Agree</b>	<b>Disagree</b>	<b>Strongly Disagree</b>	<b>Unable to Comment</b>
15. Provide medication expertise as part of patient-centered care.	<b>52.2%</b> <b>(2883)</b>	45.3% (2499)	1.4% (76)	0.5% (28)	0.6% (32)
16. Optimize the safety and efficacy of medication use systems (e.g., dispensing, administration, effects monitoring) to manage patient healthcare needs.	48.2% (2660)	<b>48.4%</b> <b>(2668)</b>	2.3% (126)	0.5% (25)	0.7% (39)
17. Design strategies to manage chronic disease and improve health and wellness.	<b>49.5%</b> <b>(2732)</b>	47.7% (2630)	1.8% (100)	0.4% (21)	0.6% (35)
18. Assess the health needs of a given patient population.	43.9% (2421)	<b>52.0%</b> <b>(2868)</b>	2.9% (158)	0.5% (28)	0.8% (43)
19. Provide patient-centered care based on evidence-based best practices.	<b>53.3%</b> <b>(2942)</b>	44.6% (2462)	1.2% (65)	0.4% (21)	0.5% (28)

**Domain 3: Approach to Practice and Care**

	<b>Strongly Agree</b>	<b>Agree</b>	<b>Disagree</b>	<b>Strongly Disagree</b>	<b>Unable to Comment</b>
20. Design, implement and evaluate viable solutions to patient care problems.	44.6% (2459)	<b>52.5%</b> <b>(2896)</b>	2.0% (109)	0.4% (22)	0.6% (32)
21. Use effective strategies to educate patients, healthcare professionals and caregivers to improve patient care.	<b>49.8%</b> <b>(2747)</b>	47.8% (2635)	1.5% (84)	0.4% (21)	0.6% (31)
22. Advocate for the patient best interest.	<b>50.8%</b> <b>(2804)</b>	46.2% (2548)	2.0% (109)	0.4% (23)	0.6% (34)
23. Engage as a member of an interprofessional healthcare team.	47.8% (2636)	<b>48.2%</b> <b>(2662)</b>	2.8% (157)	0.5% (30)	0.6% (33)

24. Identify cultural disparities in healthcare.	38.4% (2120)	<b>52.7%</b> <b>(2908)</b>	6.5% (356)	1.1% (63)	1.3% (71)
25. Recognize and address cultural disparities in access to and delivery of healthcare.	37.9% (2092)	<b>52.5%</b> <b>(2896)</b>	7.0% (387)	1.2% (68)	1.4% (75)
26. Effectively communicate (verbal, non-verbal, written) when interacting with individuals, groups and organizations.	<b>49.5%</b> <b>(2731)</b>	47.4% (2618)	1.9% (107)	0.6% (31)	0.6% (31)

**Domain 4: Personal and Professional Development**

	<b>Strongly Agree</b>	<b>Agree</b>	<b>Disagree</b>	<b>Strongly Disagree</b>	<b>Unable to Comment</b>
27. Examine and reflect on how my behavior and choices affect my personal and professional growth.	<b>47.7%</b> <b>(2632)</b>	46.6% (2572)	3.7% (205)	0.8% (44)	1.2% (65)
28. Accept responsibility for creating and achieving shared goals.	<b>48.1%</b> <b>(2652)</b>	47.8% (2639)	2.5% (138)	0.5% (29)	1.1% (60)
29. Develop new ideas and approaches to practice.	38.2% (2110)	<b>52.9%</b> <b>(2920)</b>	6.4% (351)	1.1% (63)	1.3% (74)
30. Act in a manner consistent with the trust given to pharmacists by patients, other healthcare providers and society.	<b>54.0%</b> <b>(2981)</b>	43.9% (2422)	1.0% (55)	0.4% (23)	0.7% (37)

The following statements refer to the curriculum of the Doctor of Pharmacy program at your college/school of pharmacy and/or your experiences with the curriculum.

	<b>Strongly Agree</b>	<b>Agree</b>	<b>Disagree</b>	<b>Strongly Disagree</b>	<b>Unable to Comment</b>
31. I developed the skills needed to prepare me for continuous professional development and self-directed life-long learning.	<b>51.6%</b> <b>(2849)</b>	45.2% (2493)	1.8% (97)	0.6% (35)	0.8% (44)
32. I was provided opportunities to engage in active learning (e.g., laboratories, recitations, student portfolios, problem-based learning, in-class activities).	<b>53.6%</b> <b>(2959)</b>	43.7% (2414)	1.4% (80)	0.6% (32)	0.6% (33)
33. Elective didactic courses permitted exploration of and/or advanced study in areas of professional interest.	<b>46.5%</b> <b>(2566)</b>	46.1% (2544)	5.0% (278)	1.5% (81)	0.9% (49)

**Section IV: Pharmacy Practice Experiences**

The following statements refer to your introductory pharmacy practice experiences. Introductory pharmacy practice experiences include any rotations that occur prior to the final professional year in the curriculum and may include activities such as shadowing of practitioners, interviews with real patients, and/or service learning. Please indicate the degree to which you agree or disagree with each statement.

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
34. My introductory pharmacy practice experiences were valuable in helping me to prepare for my advanced pharmacy practice experiences.	28.4% (1568)	<b>54.4%</b> <b>(3004)</b>	13.2% (730)	3.3% (181)	0.6% (35)
35. My introductory pharmacy practice experiences permitted my involvement in direct patient care responsibilities in both community and institutional settings.	29.4% (1623)	<b>54.6%</b> <b>(3012)</b>	12.5% (687)	2.9% (158)	0.7% (38)
36. My introductory pharmacy practice experiences were of high quality.	27.6% (1524)	<b>52.1%</b> <b>(2873)</b>	15.6% (863)	3.5% (193)	1.2% (65)

The following statements refer to your advanced pharmacy practice experiences. Advanced pharmacy practice experiences form the core of the final professional year of the curriculum. Please indicate the degree to which you agree or disagree with each statement.

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
37. In the community pharmacy setting, I was able to engage in direct patient care.	<b>55.3%</b> <b>(3053)</b>	39.3% (2168)	3.4% (185)	1.0% (57)	1.0% (55)
38. In the ambulatory care setting, I was able to engage in direct patient care.	<b>64.5%</b> <b>(3557)</b>	31.8% (1756)	1.9% (103)	0.6% (31)	1.3% (71)
39. In the hospital or health-system pharmacy setting, I was able to engage in direct patient care.	<b>52.7%</b> <b>(2910)</b>	39.1% (2159)	6.0% (330)	1.4% (75)	0.8% (44)
40. In the inpatient/acute care setting, I was able to engage in direct patient care.	<b>59.1%</b> <b>(3260)</b>	36.9% (2036)	2.4% (132)	0.6% (33)	1.0% (57)
41. The need for continuity of care (e.g., acute, chronic and wellness promoting patient care services) in outpatient and inpatient settings was emphasized in the advanced pharmacy practice experiences.	<b>51.7%</b> <b>(2854)</b>	43.7% (2414)	3.2% (177)	0.4% (24)	0.9% (49)
42. The variety of the available advanced pharmacy practice experience electives met my needs as a student.	<b>50.2%</b> <b>(2768)</b>	42.4% (2341)	5.0% (277)	1.8% (101)	0.6% (31)
43. I was academically prepared to enter my advanced pharmacy practice experiences.	42.8% (2360)	<b>49.7%</b> <b>(2740)</b>	5.3% (294)	1.4% (79)	0.8% (45)
44. My advanced pharmacy practice experiences were of high quality.	<b>50.7%</b> <b>(2797)</b>	44.3% (2446)	3.2% (175)	0.8% (44)	1.0% (56)



The following statements refer to your overall (both introductory and advanced) advanced pharmacy practice experiences. Please indicate the degree to which you agree or disagree with each statement.

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
45. My pharmacy practice experiences allowed me to have direct interaction with diverse patient populations (e.g., age, gender, socioeconomic, ethnic and/or cultural background, disease states, etc.).	<b>56.1%</b> <b>(3093)</b>	41.9% (2311)	1.3% (74)	0.3% (16)	0.4% (24)
46. My pharmacy practice experiences allowed me to collaborate with other health care professionals.	<b>57.3%</b> <b>(3163)</b>	40.7% (2244)	1.3% (69)	0.3% (16)	0.5% (26)

### Section V: Student Services

Please indicate the degree to which you agree or disagree with the following statements regarding student services.

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
47. College/school provided access to academic advising.	36.2% (1996)	<b>49.3%</b> <b>(2721)</b>	5.1% (284)	1.6% (86)	7.8% (431)
48. College/school provided access to guidance on career planning.	27.1% (1497)	<b>46.0%</b> <b>(2536)</b>	13.8% (763)	4.2% (229)	8.9% (493)
49. College/school provided access to accommodation services as defined by the Americans with Disabilities Act (ADA).	28.6% (1577)	31.4% (1735)	1.1% (59)	0.5% (29)	<b>38.4%</b> <b>(2118)</b>
50. College/school provided access to financial aid advising.	27.6% (1523)	<b>46.6%</b> <b>(2572)</b>	7.7% (425)	3.0% (164)	15.1% (834)
51. College/school provided access to student health and wellness services (e.g., immunizations, counseling services, campus pharmacy, primary care clinics, etc.).	41.4% (2286)	<b>47.9%</b> <b>(2641)</b>	3.2% (177)	1.3% (72)	6.2% (342)

**Section VI: The Student Experience**

Please consider each of the following statements with regard to your experience as a student of the college/school of pharmacy. Please indicate the degree to which you agree or disagree with each statement.

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
52. The college/school of pharmacy provided timely information about news, events and important matters within the college/school of pharmacy.	36.3% (2001)	<b>51.8%</b> <b>(2858)</b>	7.7% (424)	3.1% (169)	1.2% (66)
53. Information was made available to me about additional educational opportunities (e.g., residencies, fellowships, graduate school).	40.2% (2220)	<b>51.4%</b> <b>(2835)</b>	5.5% (306)	1.9% (103)	1.0% (54)
54. The college/school's administration responded to problems and issues of concern to the student body.	29.8% (1647)	<b>50.9%</b> <b>(2811)</b>	11.3% (623)	4.9% (273)	3.0% (164)
55. I was aware of the process for raising issues with the college/school administration.	29.6% (1631)	<b>50.3%</b> <b>(2776)</b>	12.9% (713)	2.8% (154)	4.4% (244)
56. I was aware that student representatives served on college/school committees with responsibility for curriculum and other matters.	40.2% (2219)	<b>52.2%</b> <b>(2883)</b>	4.5% (248)	1.7% (92)	1.4% (76)
57. The college/school of pharmacy was welcoming to students with diverse backgrounds.	<b>49.1%</b> <b>(2709)</b>	44.9% (2479)	2.3% (129)	1.3% (72)	2.3% (129)
58. I know how to utilize college/school policies dealing with harassment and discrimination.	33.2% (1831)	<b>48.1%</b> <b>(2654)</b>	8.5% (470)	1.7% (96)	8.5% (467)
59. The college/school of pharmacy had processes to communicate student perspectives to the faculty or administration.	36.0% (1984)	<b>52.7%</b> <b>(2906)</b>	5.9% (326)	2.4% (130)	3.1% (172)
60. Faculty, administrators and staff served as positive role models for students.	42.2% (2327)	<b>50.1%</b> <b>(2762)</b>	4.0% (223)	2.1% (115)	1.6% (91)
61. Preceptors modeled professional attributes and behaviors.	46.4% (2560)	<b>49.4%</b> <b>(2725)</b>	2.4% (134)	0.8% (43)	1.0% (56)
62. Preceptors provided me with individualized instruction, guidance and evaluation.	46.4% (2561)	<b>49.3%</b> <b>(2719)</b>	2.6% (144)	0.7% (37)	1.0% (57)
63. I was aware of expected behaviors with respect to professional and academic conduct.	<b>54.5%</b> <b>(3010)</b>	43.6% (2404)	0.7% (39)	0.5% (26)	0.7% (39)
64. The college/school of pharmacy had an effective process to manage academic misconduct by students (e.g., plagiarism).	37.3% (2056)	<b>44.7%</b> <b>(2469)</b>	5.4% (299)	3.8% (210)	8.8% (484)
65. The college/school of pharmacy had an effective process to manage professional misconduct by students (e.g., repeated tardiness/absences, drug diversion).	35.6% (1962)	<b>45.3%</b> <b>(2499)</b>	6.5% (356)	3.6% (201)	9.1% (500)

66. The college/school's faculty and administration encouraged me to participate in regional, state or national pharmacy meetings.	42.1% (2325)	<b>48.6%</b> <b>(2682)</b>	5.5% (303)	1.8% (99)	2.0% (109)
67. The college/school of pharmacy was supportive of student professional organizations.	<b>48.5%</b> <b>(2678)</b>	46.8% (2584)	2.0% (110)	1.2% (64)	1.5% (82)
68. I was aware of opportunities to participate in research activities with faculty.	33.6% (1855)	<b>47.0%</b> <b>(2592)</b>	12.8% (708)	3.8% (211)	2.8% (153)

## Section VII: Facilities, Experiential Sites and Educational Resources

The following statements refer to facilities, experiential sites and educational resources. Please indicate the degree to which you agree or disagree with each statement.

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
69. My campus learning environment was safe.	<b>51.0%</b> <b>(2813)</b>	44.9% (2476)	2.4% (131)	1.1% (59)	0.7% (39)
70. The information technology resources provided by the college/school of pharmacy and/or elsewhere on campus were conducive to learning.	<b>47.2%</b> <b>(2607)</b>	47.1% (2599)	3.2% (175)	1.5% (83)	1.0% (54)
71. The classrooms in the college/school of pharmacy or elsewhere on campus were conducive to learning.	44.0% (2428)	<b>48.2%</b> <b>(2661)</b>	5.4% (296)	1.8% (97)	0.7% (36)
72. The laboratories and other non-classroom environments were conducive to learning.	45.4% (2504)	<b>49.2%</b> <b>(2716)</b>	3.2% (179)	1.3% (74)	0.8% (45)
73. The study areas in the college/school of pharmacy or elsewhere on campus were conducive to learning.	43.1% (2378)	<b>47.5%</b> <b>(2619)</b>	5.8% (319)	2.8% (152)	0.9% (50)
74. The common spaces such as lounges, lobbies or other areas for relaxation and socialization available in the college/school of pharmacy or elsewhere on campus met my needs.	41.2% (2274)	<b>46.2%</b> <b>(2550)</b>	8.1% (447)	3.3% (182)	1.2% (65)
75. Access to educational resources (e.g., library, electronic data bases) was conducive to learning.	<b>52.8%</b> <b>(2911)</b>	44.1% (2434)	1.5% (85)	1.0% (55)	0.6% (33)
76. During pharmacy practice experiences, access to educational resources (e.g., library, electronic data bases) was conducive to learning.	<b>53.4%</b> <b>(2945)</b>	43.3% (2387)	1.8% (100)	0.9% (52)	0.6% (34)

**Section VIII: Overall Impressions**

These statements refer to your overall impressions of the college/school and the profession of pharmacy. Please indicate the degree to which you agree or disagree with each statement.

	<b>Strongly Agree</b>	<b>Agree</b>	<b>Disagree</b>	<b>Strongly Disagree</b>	<b>Unable to Comment</b>
77. I am prepared to enter pharmacy practice.	41.2% (2274)	<b>53.5%</b> <b>(2953)</b>	3.2% (175)	0.7% (40)	1.4% (76)
78. If I were starting my college career over again I would choose to study pharmacy.	36.3% (2001)	<b>40.1%</b> <b>(2211)</b>	12.2% (675)	6.7% (372)	4.7% (259)
79. If I were starting my pharmacy program over again I would choose the same college/school of pharmacy. (If you select disagree or strongly disagree please indicate the reason why in the comment box at the end of this section.)	<b>45.6%</b> <b>(2516)</b>	39.7% (2193)	6.8% (373)	4.6% (256)	3.3% (180)