

American Association of Colleges of Pharmacy Graduating Student Survey

2022 National Public School Summary Report

August 2022

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Total number of schools: 67
Total number of responses: 5,131
Response Rate: 74.0%

Section I: Required Interprofessional Education

1. 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	3465
Patient-centered case problems	N/A	4331
Clinical simulations	N/A	3998
Active engagement with patients	N/A	3213
Community projects, service learning	N/A	2818
Team skills training	N/A	3077
Online coursework	N/A	2939
Clinical Labs	N/A	2183
IPPE	N/A	3697
APPE	N/A	4570
Research or Capstone projects	N/A	1456
Other; please specify:	N/A	83
Did not participate in any required interprofessional education activities	N/A	20

2. 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	1964
Nursing	N/A	4676
Occupational therapy	N/A	1814
Osteopathic medicine (DO)	N/A	1728
Allopathic medicine (MD)	N/A	3265
Physical therapy	N/A	2665
Physician assistant	N/A	2469
Psychology	N/A	675
Public health	N/A	1449
Social work	N/A	2764
Veterinary medicine	N/A	415
Other; please specify:	N/A	315
Did not participate in any required interprofessional education activities	N/A	49

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

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
3. 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.	44.9% (2303)	49.0% (2516)	3.4% (177)	1.6% (81)	1.1% (54)

Section II: Professional Competencies/Outcomes/Curriculum

The Pharm.D. Program prepared me to...

Domain 1: Foundational Knowledge

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
4. Apply knowledge from the foundational pharmaceutical and biomedical sciences to the provision of patient care.	49.5% (2542)	48.1% (2467)	1.5% (75)	0.5% (28)	0.4% (19)
5. Apply knowledge from the clinical sciences to the provision of patient care.	53.8% (2762)	44.4% (2278)	1.0% (52)	0.4% (21)	0.4% (18)
6. Evaluate scientific literature.	45.3% (2326)	50.0% (2565)	3.5% (178)	0.8% (39)	0.4% (23)

Domain 2: Essentials for Practice

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
7. Provide medication expertise as part of patient-centered care.	57.4% (2946)	41.1% (2107)	0.8% (43)	0.4% (21)	0.3% (14)
8. Optimize the safety and efficacy of medication use systems (e.g., dispensing, administration, effects monitoring) to manage patient healthcare needs.	53.6% (2748)	43.3% (2223)	2.1% (107)	0.6% (31)	0.4% (22)
9. Design strategies to manage chronic disease and improve health and wellness.	55.5% (2847)	42.1% (2162)	1.6% (82)	0.4% (19)	0.4% (21)
10. Assess the health needs of a given patient population.	49.3% (2531)	47.4% (2431)	2.1% (108)	0.6% (33)	0.5% (28)
11. Provide patient-centered care based on evidence-based best practices.	58.7% (3010)	39.7% (2035)	0.9% (48)	0.4% (20)	0.4% (18)

Domain 3: Approach to Practice and Care

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
12. Design, implement and evaluate viable solutions to patient care problems.	50.8% (2606)	46.8% (2402)	1.5% (78)	0.5% (25)	0.4% (20)
13. Use effective strategies to educate patients, healthcare professionals and caregivers to improve patient care.	55.6% (2853)	42.4% (2175)	1.1% (59)	0.5% (25)	0.4% (19)
14. Advocate for the patient best interest.	56.6% (2906)	40.5% (2080)	1.8% (90)	0.5% (24)	0.6% (31)
15. Engage as a member of an interprofessional healthcare team.	54.8% (2810)	42.4% (2175)	1.8% (94)	0.5% (28)	0.5% (24)
16. Identify cultural disparities in healthcare.	44.3% (2271)	49.1% (2520)	4.6% (236)	1.1% (55)	1.0% (49)
17. Recognize and address cultural disparities in access to and delivery of healthcare.	44.0% (2257)	48.4% (2484)	5.3% (270)	1.2% (60)	1.2% (61)
18. Effectively communicate (verbal, non-verbal, written) when interacting with individuals, groups and organizations.	55.6% (2851)	41.7% (2140)	1.7% (86)	0.6% (32)	0.4% (22)

Domain 4: Personal and Professional Development

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
19. Examine and reflect on how my behavior and choices affect my personal and professional growth.	53.5% (2746)	42.3% (2170)	2.5% (130)	0.9% (45)	0.8% (40)
20. Accept responsibility for creating and achieving shared goals.	54.0% (2771)	42.6% (2184)	2.0% (104)	0.8% (40)	0.6% (32)
21. Develop new ideas and approaches to practice.	44.2% (2270)	48.0% (2461)	5.7% (290)	1.1% (58)	1.0% (52)
22. Act in a manner consistent with the trust given to pharmacists by patients, other healthcare providers and society.	59.3% (3043)	38.8% (1991)	0.8% (42)	0.6% (33)	0.4% (22)

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.

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
23. I developed the skills needed to prepare me for continuous professional development and self-directed life-long learning.	56.2% (2886)	41.1% (2107)	1.6% (84)	0.5% (28)	0.5% (26)
24. I was provided opportunities to engage in active learning (e.g., laboratories, recitations, student portfolios, problem-based learning, in-class activities).	59.6% (3057)	38.5% (1976)	1.0% (51)	0.5% (25)	0.4% (22)
25. Elective didactic courses permitted exploration of and/or advanced study in areas of professional interest.	53.2% (2729)	41.4% (2122)	3.2% (163)	1.2% (64)	1.0% (53)

Section III: 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
26. My introductory pharmacy practice experiences were valuable in helping me to prepare for my advanced pharmacy practice experiences.	36.5% (1873)	51.4% (2636)	9.2% (474)	2.3% (119)	0.6% (29)
27. My introductory pharmacy practice experiences permitted my involvement in direct patient care responsibilities in both community and institutional settings.	39.0% (2000)	50.4% (2588)	8.1% (415)	1.8% (92)	0.7% (36)
28. My introductory pharmacy practice experiences were of high quality.	35.8% (1839)	49.8% (2557)	11.1% (567)	2.3% (116)	1.0% (52)

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
29. In the community pharmacy setting, I was able to engage in direct patient care.	60.8% (3119)	35.1% (1803)	2.6% (132)	0.9% (46)	0.6% (31)
30. In the ambulatory care setting, I was able to engage in direct patient care.	68.3% (3507)	28.2% (1445)	1.6% (80)	0.7% (36)	1.2% (63)
31. In the hospital or health-system pharmacy setting, I was able to engage in direct patient care.	56.0% (2874)	36.0% (1845)	5.6% (286)	1.5% (78)	0.9% (48)
32. In the inpatient/acute care setting, I was able to engage in direct patient care.	62.8% (3223)	33.1% (1700)	2.3% (117)	0.8% (43)	0.9% (48)
33. 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.	57.9% (2972)	38.6% (1983)	2.0% (103)	0.6% (33)	0.8% (40)
34. The variety of the available advanced pharmacy practice experience electives met my needs as a student.	55.3% (2835)	38.3% (1966)	3.8% (194)	1.9% (100)	0.7% (36)
35. I was academically prepared to enter my advanced pharmacy practice experiences.	47.8% (2453)	45.3% (2325)	4.7% (242)	1.4% (72)	0.8% (39)
36. My advanced pharmacy practice experiences were of high quality.	55.9% (2868)	40.1% (2056)	2.5% (126)	0.8% (40)	0.8% (41)

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
37. 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.).	61.2% (3142)	36.8% (1887)	1.1% (54)	0.5% (24)	0.5% (24)
38. My pharmacy practice experiences allowed me to collaborate with other health care professionals.	61.3% (3145)	36.9% (1891)	1.0% (49)	0.5% (25)	0.4% (21)

Section IV: 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	Did Not Utilize
39. College/school provided access to academic advising.	45.4% (2327)	44.4% (2278)	3.6% (183)	1.2% (64)	5.4% (279)
40. College/school provided access to guidance on career planning.	37.1% (1902)	45.7% (2343)	9.0% (464)	2.5% (126)	5.8% (296)
41. College/school provided access to accommodation services as defined by the Americans with Disabilities Act (ADA).	37.6% (1927)	30.7% (1573)	1.1% (57)	0.7% (34)	30.0% (1540)
42. College/school provided access to financial aid advising.	37.7% (1936)	44.0% (2258)	5.4% (277)	2.0% (101)	10.9% (559)
43. College/school provided access to student health and wellness services (e.g., immunizations, counseling services, campus pharmacy, primary care clinics, etc.).	47.4% (2430)	43.5% (2233)	2.5% (130)	1.1% (59)	5.4% (279)

Section V: 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
44. The college/school of pharmacy provided timely information about news, events and important matters within the college/school of pharmacy.	42.4% (2176)	48.5% (2487)	5.7% (295)	2.6% (132)	0.8% (41)
45. Information was made available to me about additional educational opportunities (e.g., residencies, fellowships, graduate school).	47.8% (2453)	45.7% (2346)	4.2% (217)	1.5% (79)	0.7% (36)
46. The college/school's administration responded to problems and issues of concern to the student body.	34.2% (1753)	48.0% (2463)	11.1% (571)	4.4% (225)	2.3% (119)
47. I was aware of the process for raising issues with the college/school administration.	33.7% (1729)	49.1% (2520)	11.7% (599)	2.5% (130)	3.0% (153)

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	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
48. I was aware that student representatives served on college/school committees with responsibility for curriculum and other matters.	45.0% (2308)	48.2% (2475)	4.3% (223)	1.5% (75)	1.0% (50)
49. The college/school of pharmacy was welcoming to students with diverse backgrounds.	51.9% (2663)	41.4% (2122)	2.6% (134)	1.5% (75)	2.7% (137)
50. I know how to utilize college/school policies dealing with harassment and discrimination.	38.1% (1954)	46.4% (2383)	8.0% (413)	1.9% (100)	5.5% (281)
51. The college/school of pharmacy had processes to communicate student perspectives to the faculty or administration.	42.1% (2158)	48.2% (2475)	5.0% (256)	2.3% (118)	2.4% (124)
52. Faculty, administrators and staff served as positive role models for students.	47.2% (2423)	46.9% (2406)	3.2% (163)	1.6% (84)	1.1% (55)
53. Preceptors modeled professional attributes and behaviors.	50.4% (2585)	45.8% (2349)	2.2% (113)	1.0% (52)	0.6% (32)
54. Preceptors provided me with individualized instruction, guidance and evaluation.	52.0% (2669)	44.5% (2284)	2.1% (108)	0.8% (41)	0.6% (29)
55. I was aware of expected behaviors with respect to professional and academic conduct.	59.1% (3034)	39.2% (2009)	0.7% (37)	0.6% (32)	0.4% (19)
56. The college/school of pharmacy had an effective process to manage academic misconduct by students (e.g., plagiarism).	42.7% (2192)	42.3% (2171)	4.9% (249)	2.9% (150)	7.2% (369)
57. The college/school of pharmacy had an effective process to manage professional misconduct by students (e.g., repeated tardiness/absences, drug diversion).	41.7% (2138)	42.4% (2173)	5.1% (260)	3.0% (156)	7.9% (404)

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
58. The college/school's faculty and administration encouraged me to participate in regional, state or national pharmacy meetings.	44.9% (2306)	46.1% (2367)	5.5% (284)	1.5% (76)	1.9% (98)
59. The college/school of pharmacy was supportive of student professional organizations.	53.5% (2744)	42.7% (2192)	1.8% (93)	0.9% (46)	1.1% (56)
60. I was aware of opportunities to participate in research activities with faculty.	38.9% (1994)	45.2% (2318)	11.4% (583)	3.0% (155)	1.6% (81)
60(a). I was aware of the existence of federal student loan repayment programs.	31.8% (1634)	44.1% (2262)	13.4% (690)	4.7% (243)	5.9% (302)
60(b). I was aware of the existence of state student loan repayment programs.	29.5% (1516)	40.7% (2087)	17.2% (884)	5.8% (299)	6.7% (345)
60(c). I was aware of eligibility requirements for governmental (state or federal) student loan repayment programs.	29.8% (1531)	41.3% (2117)	16.6% (852)	5.7% (294)	6.6% (337)

Section VI: 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
61. My campus learning environment was safe.	55.6% (2851)	41.3% (2117)	1.9% (97)	0.8% (40)	0.5% (26)
62. The information technology resources provided by the college/school of pharmacy and/or elsewhere on campus were conducive to learning.	53.7% (2756)	43.0% (2206)	1.8% (93)	0.9% (45)	0.6% (31)
63. The classrooms in the college/school of pharmacy or elsewhere on campus were conducive to learning.	53.0% (2719)	42.9% (2199)	2.8% (146)	1.0% (51)	0.3% (16)
64. The laboratories and other non-classroom environments were conducive to learning.	53.9% (2767)	42.6% (2188)	2.0% (105)	0.7% (37)	0.7% (34)
65. The study areas in the college/school of pharmacy or elsewhere on campus were conducive to learning.	51.8% (2660)	42.5% (2180)	3.6% (183)	1.5% (75)	0.6% (33)
66. 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.	49.9% (2562)	42.3% (2170)	5.2% (269)	1.7% (89)	0.8% (41)

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
67. Access to educational resources (e.g., library, electronic data bases) was conducive to learning.	58.3% (2991)	39.3% (2019)	1.1% (57)	0.8% (40)	0.5% (24)
68. During pharmacy practice experiences, access to educational resources (e.g., library, electronic data bases) was conducive to learning.	58.6% (3009)	39.2% (2011)	1.1% (56)	0.7% (37)	0.4% (18)

Section VII: 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.

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unable to Comment
69. I am prepared to enter pharmacy practice.	45.4% (2330)	50.1% (2573)	2.5% (130)	0.7% (38)	1.2% (60)
70. If I were starting my college career over again I would choose to study pharmacy.	33.6% (1724)	40.3% (2069)	13.8% (707)	6.7% (346)	5.6% (285)
71. 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.)	46.1% (2367)	41.2% (2116)	5.5% (283)	3.9% (200)	3.2% (165)

Question 72 is an open-ended comment question and is not included in this report.

Section VIII: Demographic Information

73. 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	3489
Institutional pharmacy	N/A	1450
Other pharmacy related; please specify:	N/A	563
Non-pharmacy related: please specify:	N/A	330
I did not work (Skip to number 75)	N/A	495

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

	Response Percent	Response Total
Less than 10 hours	29.3%	1358
10 to 14 hours	33.3%	1546
15 to 19 hours	22.0%	1019
20 to 29 hours	10.4%	484
30 or more hours	3.4%	159
No answer	1.5%	70

75. 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	1582
Associate's	N/A	638
B.S., B.A. or Other Bachelor's	N/A	3100
Master's; please specify type:	N/A	106
JD or Other Law	N/A	0
Ph.D.	N/A	7
M.D., D.D.S. or other Professional Doctorate	N/A	6
Other Doctorate	N/A	10

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

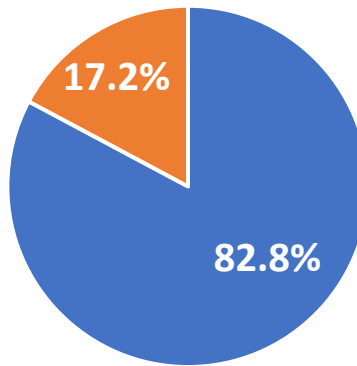
	Response Percent	Response Total
Chain community pharmacy	N/A	1974
Independent community pharmacy	N/A	828
Hospital	N/A	2425
Clinic-based pharmacy	N/A	892
Consultant	N/A	232
Home care	N/A	78
Nursing home/Long-term care facility	N/A	213
Academia	N/A	294
Association management	N/A	40
Pharmaceutical industry	N/A	541
Managed Care	N/A	246
Government or regulatory agency	N/A	210
Other Pharmacy Related Field	N/A	292
Non-pharmacy related field	N/A	43
No plans for employment in the coming year	N/A	101

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

	Response Percent	Response Total
Pharmacy Residency Program	N/A	2023
Pharmacy Ph.D. Program	N/A	125
Master's; please specify type:	N/A	204
JD or Other Law Program	N/A	18
Other Health Professions (MD, DDS, DVM, etc.)	N/A	53
Non-Pharmacy Ph.D. Program	N/A	21
Fellowship	N/A	273
No plans for further education in the coming year	N/A	2555

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

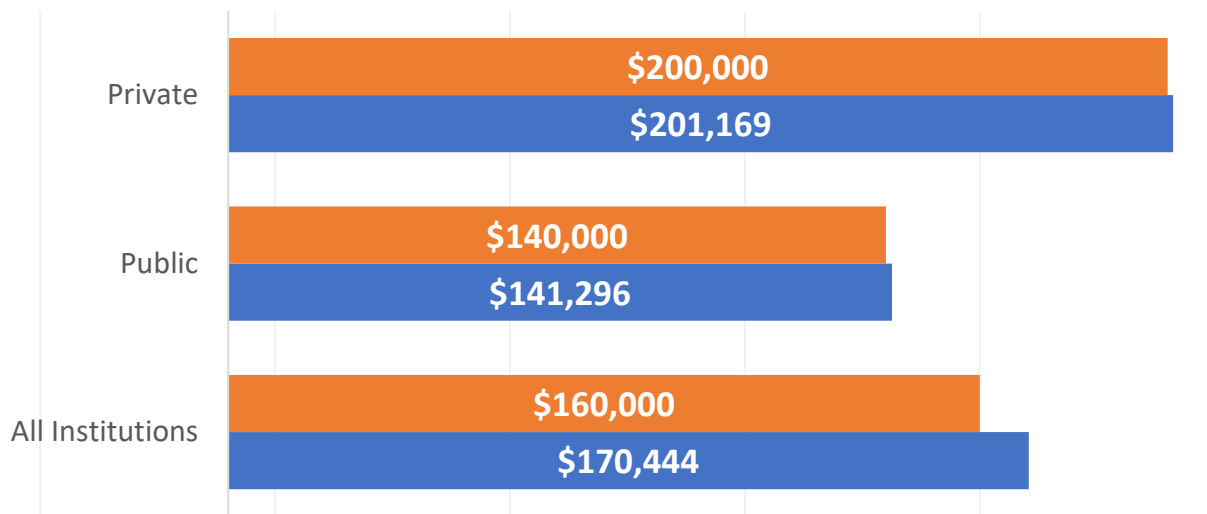
	Response Percent	Response Total
Yes	82.8%	4246
No	17.2%	885



■ Yes ■ No

78. 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:

Amounts Borrowed to Finance Pharm.D. Education



■ Median ■ Mean

79(a). How do you describe yourself?

	Response Percent	Response Total
Female	61.4%	3152
Trans Female/Trans Woman	0.1%	6
Male	34.5%	1772
Trans Male/Trans Man	0.1%	3
Other not listed above	0.4%	20
Prefer not to disclose	3.5%	178

79(b). Do you consider yourself to be:

	Response Percent	Response Total
Heterosexual or Straight	86.9%	4461
Gay or Lesbian	2.7%	139
Bisexual	3.4%	173
Other not listed above	0.8%	40
Prefer not to disclose	6.2%	318

80. Age

	Response Percent	Response Total
25 or under	41.9%	2151
26 - 30	45.0%	2308
31 - 35	6.2%	316
36 - 40	2.1%	108
41 - 45	0.9%	48
46 - 50	0.4%	18
51 or above	0.2%	12
Prefer not to disclose	3.3%	170

81. Are you of Hispanic, Latino, or Spanish origin?

	Response Percent	Response Total
No, not of Hispanic, Latino, or Spanish origin	86.6%	4444
Yes, Mexican, Mexican American, Chicano	3.8%	193
Yes, Puerto Rican	1.8%	94
Yes, Cuban	0.6%	31
Yes, another Hispanic, Latino, or Spanish Origin	2.3%	118
Prefer not to disclose	4.9%	251

82. I identify as (check all that apply):

	Response Percent	Response Total
American Indian or Alaska Native	1.2%	63
Asian	22.7%	1164
Black or African American	8.1%	418
Middle Eastern or North African	3.8%	193
Native Hawaiian or Other Pacific Islander	0.6%	32
White	58.3%	2989
Other not listed above	1.7%	88
Prefer not to disclose	7.4%	378

a. Respondents were able to select multiple options; therefore, percentages do not represent mutually exclusive answer choices and may not total to 100%.

83. Do you identify as a first-generation student?

	Response Percent	Response Total
Yes, neither of my parents completed a college/university degree	32.7%	1680
No	63.4%	3251
Prefer not to disclose	3.9%	200

84. Which is the language you know best?

	Response Percent	Response Total
English	90.7%	4656
Other	6.2%	316
Prefer not to disclose	3.1%	159

85. How would you describe your English Language Proficiency?

	Response Percent	Response Total
Native	78.1%	4005
Advanced	16.8%	864
Intermediate	2.0%	105
Beginner	0.1%	5
Prefer not to disclose	3.0%	152