

**PHARMACY GRADUATING STUDENT SURVEY
PUBLIC SCHOOL SUMMARY REPORT - 2010**

Total number of schools: 53
Total number of responses: 4,190

Part A. Demographic Information

1. Gender

| | Response Percent | Response Total |
|--------|-----------------------------|---------------------------|
| Male | 35.4% | 1482 |
| Female | 64.6% | 2708 |

2. Age

| | Response Percent | Response Total |
|-------------|-----------------------------|---------------------------|
| 25 or under | 53.8% | 2255 |
| 26-30 | 33.2% | 1393 |
| 31-35 | 8.1% | 341 |
| 36 or older | 4.8% | 201 |

3. Primary area of paid outside work experiences while in school

| | Response Percent | Response Total |
|------------------------|-----------------------------|---------------------------|
| Community pharmacy | NA | 3346 |
| Institutional pharmacy | NA | 774 |
| Other pharmacy related | NA | 282 |
| Non-Pharmacy related | NA | 304 |
| I did not work | NA | 200 |

3a. Hours worked per week if paid for outside work during your final professional year

| | Response Percent | Response Total |
|--|-----------------------------|---------------------------|
| I did not work during my final professional year | 32.7% | 1370 |
| Less than 10 hours | 37.6% | 1574 |
| 10 to less than 15 hours | 15.4% | 644 |
| 15 to less than 20 hours | 7.9% | 329 |
| 20 to less than 30 hours | 3.1% | 129 |
| 30 or more hours | 0.8% | 35 |
| No Answer | 2.6% | 109 |

3b. Hours worked per week if paid for outside work during the academic year immediately prior to final professional year

| | Response Percent | Response Total |
|---|-----------------------------|---------------------------|
| I did not work during the academic year immediately prior to my final professional year | 17.0% | 712 |
| Less than 10 hours | 25.3% | 1060 |
| 10 to less than 15 hours | 24.3% | 1019 |
| 15 to less than 20 hours | 18.0% | 755 |
| 20 to less than 30 hours | 8.9% | 371 |
| 30 or more hours | 4.2% | 175 |
| No Answer | 2.3% | 98 |

| 4. College degrees earned prior to entering Doctor of Pharmacy program | Response Percent | Response Total |
|---|-----------------------------|---------------------------|
| Did not have a degree prior to entering program | NA | 2052 |
| Associate's | NA | 507 |
| B.S., B.A. or Other Bachelor's | NA | 1694 |
| MBA | NA | 15 |
| Master's (other than MBA) | NA | 96 |
| JD or Other Law | NA | 2 |
| Ph.D. | NA | 10 |
| M.D., D.D.S. or other Professional Doctorate | NA | 1 |
| Other Doctorate | NA | 4 |
| 5. Dual degree program participated in while completing Doctor of Pharmacy program | Response Percent | Response Total |
| Did not participate in a dual degree program | 97.2% | 4073 |
| Pharm.D./Ph.D. | 0.4% | 17 |
| Pharm.D./MBA | 0.6% | 26 |
| Pharm.D./M.S. | 0.3% | 12 |
| Pharm.D./JD | 0.0% | 1 |
| Pharm.D./M.P.H. | 0.2% | 9 |
| Other | 1.2% | 52 |
| 6. Learning environment/configuration of curriculum | Response Percent | Response Total |
| Traditional program (4 professional years) | 98.1% | 4112 |
| Accelerated program (3 professional years; year-round classes) | 1.9% | 78 |
| 7. Enrolled learning environment | Response Percent | Response Total |
| Main campus | 87.4% | 3663 |
| Branch campus (enter city and state) | 6.3% | 262 |
| Satellite campus (enter city and state) | 6.3% | 264 |
| Web-based program | 0.0% | 1 |
| 8. Current plans upon your graduation from the college/school of pharmacy | Response Percent | Response Total |
| Employment | | |
| Community Pharmacist -- Chain | NA | 2389 |
| Community Pharmacist -- Independent | NA | 451 |
| Hospital Pharmacist | NA | 1154 |
| Long-term Care Pharmacist | NA | 165 |
| Managed Care Pharmacist | NA | 78 |
| Pharmaceutical Industry | NA | 81 |
| Pharmacist - Armed services or Regulator Agency | NA | 94 |
| Pharmacist - Other Government | NA | 154 |
| Professional Association | NA | 19 |
| Other Pharmacy Related Field | NA | 298 |
| Non - Pharmacy Related Field | NA | 21 |
| No Plans for Employment in the coming year | NA | 121 |

| Further Education | Response Percent | Response Total |
|--|-------------------------|-----------------------|
| Pharmacy Residency Program | NA | 1040 |
| Dual Pharmacy Residency - Master's Program | NA | 19 |
| Pharmacy Master's Program | NA | 27 |
| Pharmacy Ph.D. Program | NA | 33 |
| MBA Program | NA | 200 |
| JD or Other Law Program | NA | 20 |
| Other Health Professions (M.D., D.D.S., D.V.M., etc.) | NA | 72 |
| Other Non-Pharmacy Master's Program | NA | 52 |
| Non-Pharmacy Ph.D. Program | NA | 16 |
| Fellowship | NA | 51 |
| No Plans for Further Education in the coming year | NA | 1975 |
| 9. Borrowed money to help pay for your college expenses | Response Percent | Response Total |
| Yes | 87.7% | 3674 |
| No | 12.3% | 516 |

Average amount borrowed (public schools): \$91,679

Median amount borrowed (public schools): \$90,000

Section I: Professional Competencies/Outcomes

| Indicate the degree to which you agree or disagree with these statements. | | | | | |
|--|---------------------|---------------------|-------------|-------------------|-------------------|
| | Strongly Agree | Agree | Disagree | Strongly Disagree | Unable to Comment |
| The Pharm.D. Program prepared me to ... | | | | | |
| 10. communicate with health care providers. | 48.9% (2050) | 48.6% (2035) | 2.0% (83) | 0.3% (12) | 0.2% (10) |
| 11. communicate with patients and caregivers. | 56.2% (2355) | 42.2% (1769) | 1.2% (52) | 0.2% (9) | 0.1% (5) |
| 12. gather and use specific information (e.g., patient histories, medical records) to identify patient medication-related problems. | 55.8% (2338) | 42.7% (1788) | 1.2% (49) | 0.2% (10) | 0.1% (5) |
| 13. develop a patient care plan to manage each medication-related problem. | 50.9% (2132) | 47.1% (1974) | 1.6% (65) | 0.2% (7) | 0.3% (12) |
| 14. work with the health care team to implement the patient care plan. | 43.8% (1835) | 50.9% (2133) | 4.3% (180) | 0.6% (25) | 0.4% (17) |
| 15. document pharmaceutical care activities. | 42.2% (1769) | 52.3% (2192) | 4.6% (192) | 0.5% (19) | 0.4% (18) |
| 16. interpret epidemiologic data relevant to specific diseases and their management. | 31.6% (1323) | 58.7% (2460) | 7.4% (308) | 0.8% (32) | 1.6% (67) |
| 17. interpret economic data relevant to treatment of disease. | 22.6% (945) | 57.4% (2407) | 15.9% (665) | 2.1% (89) | 2.0% (84) |
| 18. manage the system of medication use to affect patients. | 37.0% (1550) | 55.9% (2342) | 4.0% (168) | 0.4% (16) | 2.7% (114) |
| 19. identify and use risk reduction strategies to minimize medication errors. | 37.8% (1585) | 54.8% (2297) | 5.6% (233) | 0.6% (27) | 1.1% (48) |
| 20. provide patient care in accordance with legal, ethical, social, economic, and professional guidelines. | 50.2% (2103) | 47.8% (2003) | 1.4% (57) | 0.3% (11) | 0.4% (16) |
| 21. work with other stakeholders (e.g., patients and other health professionals) to engender a team approach to assure appropriate use of health care resources in providing patient care. | 39.4% (1652) | 54.9% (2299) | 4.5% (189) | 0.3% (11) | 0.9% (39) |
| 22. interpret and apply drug use policy and health policy. | 31.4% (1317) | 58.5% (2453) | 7.6% (318) | 0.5% (23) | 1.9% (79) |
| 23. work with other stakeholders (e.g., patients and other health professionals) to identify and resolve problems related to medication use. | 41.9% (1754) | 54.6% (2288) | 2.8% (119) | 0.2% (7) | 0.5% (22) |
| 24. promote wellness and disease prevention services. | 50.8% (2127) | 46.9% (1965) | 1.8% (75) | 0.2% (9) | 0.3% (14) |
| 25. practice pharmacy in interprofessional and collaborative practice settings. | 49.5% (2075) | 47.3% (1981) | 2.6% (108) | 0.3% (12) | 0.3% (14) |
| 26. search the health sciences literature. | 55.6% (2328) | 41.7% (1748) | 2.1% (89) | 0.4% (17) | 0.2% (8) |
| 27. evaluate the health sciences literature. | 48.9% (2049) | 46.9% (1967) | 3.2% (133) | 0.7% (31) | 0.2% (10) |
| 28. reflect critically on personal skills and actions and make plans to improve when necessary. | 44.9% (1881) | 51.0% (2136) | 3.3% (139) | 0.4% (17) | 0.4% (17) |
| 29. accept and respond to constructive feedback. | 47.0% (1968) | 49.0% (2054) | 2.8% (119) | 0.5% (19) | 0.7% (30) |

SECTION II: Doctor of Pharmacy Curriculum

| Indicate the degree to which you agree or disagree with these statements. | | | | | |
|---|-----------------------|---------------------|-----------------|--------------------------|--------------------------|
| | Strongly Agree | Agree | Disagree | Strongly Disagree | Unable to Comment |
| 30. The sequence of courses was appropriate to build my knowledge and skills. | 28.2% (1180) | 58.8% (2463) | 10.8% (453) | 1.7% (70) | 0.6% (24) |
| 31. I developed the skills needed to prepare me for continued learning after graduation. | 44.1% (1846) | 52.8% (2214) | 2.2% (91) | 0.3% (12) | 0.6% (27) |
| 32. I was provided opportunities to engage in active learning (e.g., laboratories, recitations, student portfolios, problem-based learning, in-class activities). | 47.7% (1997) | 48.9% (2050) | 2.7% (112) | 0.4% (15) | 0.4% (16) |
| 33. I was encouraged to ask questions in class. | 37.4% (1565) | 51.6% (2160) | 8.8% (369) | 1.1% (44) | 1.2% (52) |
| 34. Pharmacy-related elective courses met my needs as a Pharm.D. student. | 32.7% (1369) | 49.3% (2064) | 12.7% (532) | 3.1% (130) | 2.3% (95) |
| 35. Course loads were reasonable. | 26.6% (1113) | 62.8% (2630) | 8.9% (372) | 1.3% (55) | 0.5% (20) |
| 36. The program included opportunities to develop professional attitudes, ethics and behaviors. | 44.7% (1871) | 50.8% (2128) | 2.9% (122) | 0.7% (31) | 0.9% (38) |

SECTION III: Pharmacy Practice Experiences

| Indicate the degree to which you agree or disagree with these statements. | | | | | |
|---|-----------------------|---------------------|-----------------|--------------------------|--------------------------|
| | Strongly Agree | Agree | Disagree | Strongly Disagree | Unable to Comment |
| 37. My introductory pharmacy practice experiences were valuable in helping me to prepare for my advanced pharmacy practice experiences. | 22.7% (950) | 46.9% (1965) | 17.3% (723) | 4.4% (185) | 8.8% (367) |
| 38. My introductory pharmacy practice experiences permitted my involvement in direct patient care responsibilities in both community and institutional settings. | 22.0% (921) | 46.5% (1949) | 18.9% (792) | 3.6% (150) | 9.0% (378) |
| 39. The sites available for introductory pharmacy practice experiences were of high quality. | 23.0% (964) | 50.7% (2125) | 12.6% (526) | 2.6% (111) | 11.1% (464) |
| 40. The process by which I was assigned sites for introductory pharmacy practice experiences was fair. | 26.2% (1096) | 51.7% (2165) | 7.1% (297) | 2.1% (90) | 12.9% (542) |
| 41. In the community pharmacy setting, I was able to apply my patient care skills. | 42.7% (1790) | 47.6% (1996) | 7.0% (292) | 1.3% (54) | 1.4% (58) |
| 42. In the ambulatory care setting, I was able to apply my patient care skills. | 55.1% (2308) | 38.6% (1618) | 2.9% (123) | 0.6% (27) | 2.7% (114) |
| 43. In the hospital or health-system pharmacy setting, I was able to apply my patient care skills. | 44.1% (1848) | 46.5% (1947) | 6.8% (283) | 1.4% (60) | 1.2% (52) |
| 44. In the inpatient/acute care setting, I was able to apply my patient care skills. | 50.3% (2108) | 43.4% (1819) | 3.6% (152) | 0.5% (22) | 2.1% (89) |
| 45. The need for continuity of care throughout the health care system was emphasized in the advanced pharmacy practice experiences. | 42.9% (1798) | 48.7% (2042) | 6.3% (264) | 0.6% (26) | 1.4% (60) |
| 46. The variety of the available advanced pharmacy practice experience electives met my needs as a student. | 41.9% (1755) | 47.1% (1972) | 8.0% (336) | 2.3% (96) | 0.7% (31) |
| 47. I was academically prepared to enter my advanced pharmacy practice experiences. | 38.3% (1603) | 54.3% (2277) | 5.7% (238) | 1.0% (43) | 0.7% (29) |
| 48. The sites available for advanced pharmacy practice experiences were of high quality. | 38.9% (1630) | 52.1% (2185) | 6.3% (266) | 1.4% (58) | 1.2% (51) |
| 49. The process by which I was assigned sites for advanced pharmacy practice experiences was fair. | 37.6% (1574) | 49.4% (2070) | 7.9% (329) | 3.6% (151) | 1.6% (66) |
| 50. Overall, my advanced practice experiences were valuable in helping me to achieve the professional competencies. | 49.0% (2052) | 46.7% (1956) | 2.6% (108) | 0.8% (35) | 0.9% (39) |
| 51. My pharmacy practice experiences allowed me to have direct interaction with diverse patient populations (e.g., age, gender, ethnic and/or cultural background, disease states, etc.). | 54.2% (2269) | 42.1% (1766) | 2.8% (119) | 0.3% (12) | 0.6% (24) |
| 52. My pharmacy practice experiences allowed me to collaborate with other health care professionals. | 55.6% (2329) | 42.1% (1766) | 1.6% (69) | 0.2% (9) | 0.4% (17) |

SECTION IV: Student Services

| Indicate the degree to which you agree or disagree with these statements. | | | | | |
|---|-----------------------|---------------------|-----------------|--------------------------|------------------------|
| | Strongly Agree | Agree | Disagree | Strongly Disagree | Did not Utilize |
| 53. Academic advising met my needs. | 24.2% (1016) | 44.4% (1862) | 10.6% (445) | 3.5% (145) | 17.2% (722) |
| 54. Career planning and guidance met my needs. | 16.9% (709) | 37.9% (1587) | 15.4% (644) | 4.7% (195) | 25.2% (1055) |
| 55. Tutoring services met my needs. | 11.1% (467) | 23.5% (984) | 7.2% (302) | 2.5% (105) | 55.7% (2332) |
| 56. Financial aid advising met my needs. | 18.9% (792) | 42.8% (1794) | 10.8% (452) | 5.2% (216) | 22.3% (936) |
| 57. Student health and wellness services (e.g. immunizations, counseling services, campus pharmacy, primary care clinics, etc.) met my needs. | 27.4% (1147) | 49.5% (2072) | 5.9% (246) | 2.4% (99) | 14.9% (626) |

SECTION V: The Student Experience

| Indicate the degree to which you agree or disagree with these statements. | | | | | |
|---|---------------------|---------------------|-------------|-------------------|-------------------|
| | Strongly Agree | Agree | Disagree | Strongly Disagree | Unable to Comment |
| 58. The college/school of pharmacy provided timely information about news, events and important matters within the college/school of pharmacy. | 37.7% (1580) | 55.1% (2310) | 5.4% (226) | 1.1% (46) | 0.7% (28) |
| 59. Information was made available to me about additional educational opportunities (e.g., residencies, fellowships, graduate school). | 39.2% (1644) | 52.7% (2210) | 5.8% (244) | 1.1% (47) | 1.1% (45) |
| 60. The college/school's administration responded to problems and issues of concern to the student body. | 30.1% (1263) | 53.7% (2249) | 9.6% (403) | 3.0% (126) | 3.6% (149) |
| 61. I was aware of the process for raising issues with the college/school administration. | 27.0% (1132) | 54.5% (2284) | 13.3% (557) | 1.5% (63) | 3.7% (154) |
| 62. I was aware that student representatives served on college/school committees with responsibility for curriculum and other matters. | 37.5% (1571) | 55.6% (2328) | 4.8% (200) | 0.8% (33) | 1.4% (58) |
| 63. The college/school of pharmacy is welcoming to students with diverse backgrounds. | 47.8% (2003) | 46.8% (1960) | 2.2% (91) | 0.7% (30) | 2.5% (106) |
| 64. The admissions process of the college/school of pharmacy was well organized. | 40.4% (1691) | 50.7% (2126) | 4.8% (203) | 1.5% (64) | 2.5% (106) |
| 65. The college/school of pharmacy had a student government that effectively communicated student opinions and perspectives to the faculty or administration. | 32.4% (1359) | 49.2% (2060) | 8.3% (346) | 2.2% (91) | 8.0% (334) |
| 66. The college/school of pharmacy made use of a variety of means (e.g., course evaluations, student surveys, focus groups, meetings with administrative leaders) to obtain student perspectives on curriculum, student services, faculty/student relationships and other aspects of the program. | 39.5% (1655) | 51.2% (2146) | 5.8% (241) | 1.6% (67) | 1.9% (81) |
| 67. Faculty, administrators and staff were committed to serving as positive role models for students. | 40.5% (1697) | 52.9% (2218) | 4.4% (183) | 1.2% (49) | 1.0% (43) |
| 68. Overall, preceptors modeled professional attributes and behaviors in the pharmacy practice experiences. | 44.7% (1875) | 52.4% (2197) | 2.0% (85) | 0.3% (14) | 0.5% (19) |
| 69. Overall, preceptors provided me with individualized instruction, guidance and evaluation that met my needs as a Doctor of Pharmacy student. | 43.0% (1803) | 52.1% (2182) | 3.5% (146) | 0.7% (30) | 0.7% (29) |
| 70. I was aware of expected behaviors with respect to professional and academic conduct. | 56.2% (2355) | 42.9% (1798) | 0.5% (20) | 0.1% (5) | 0.3% (12) |
| 71. The college/school of pharmacy effectively managed academic misconduct by students. | 27.6% (1158) | 40.9% (1713) | 8.6% (359) | 4.5% (188) | 18.4% (772) |

| Indicate the degree to which you agree or disagree with these statements. | | | | | |
|---|-----------------------|---------------------|-----------------|--------------------------|--------------------------|
| | Strongly Agree | Agree | Disagree | Strongly Disagree | Unable to Comment |
| 72. The college/school of pharmacy effectively managed professional misconduct by students. | 26.4% (1106) | 41.4% (1735) | 8.1% (340) | 4.1% (171) | 20.0% (838) |
| 73. The college/school's administration and faculty encouraged me to participate in regional, state or national pharmacy meetings | 41.4% (1736) | 49.6% (2080) | 5.3% (222) | 1.2% (50) | 2.4% (102) |
| 74. The college/school of pharmacy was supportive of student professional organizations. | 51.4% (2153) | 44.6% (1869) | 1.8% (77) | 0.6% (25) | 1.6% (66) |
| 75. I was aware of opportunities to participate in research activities with faculty. | 27.2% (1139) | 44.8% (1877) | 18.2% (763) | 4.7% (199) | 5.1% (212) |

SECTION VI: Facilities, Experiential Sites and Educational Resources

| Indicate the degree to which you agree or disagree with these statements. | | | | | |
|---|-----------------------|---------------------|-----------------|--------------------------|--------------------------|
| | Strongly Agree | Agree | Disagree | Strongly Disagree | Unable to Comment |
| 76. My campus learning environment was safe. | 50.0% (2097) | 46.0% (1929) | 2.8% (119) | 0.7% (29) | 0.4% (16) |
| 77. The computer and other information technology resources provided by the college/school of pharmacy and/or elsewhere on campus were conducive to learning. | 43.9% (1841) | 48.2% (2018) | 6.1% (254) | 1.5% (62) | 0.4% (15) |
| 78. The classrooms in the college/school of pharmacy or elsewhere on campus were conducive to learning. | 38.6% (1617) | 51.7% (2168) | 7.9% (330) | 1.5% (61) | 0.3% (14) |
| 79. The laboratories and other non-classroom environments were conducive to learning. | 40.1% (1680) | 52.8% (2211) | 5.5% (232) | 1.0% (40) | 0.6% (27) |
| 80. The study areas in the college/school of pharmacy or elsewhere on campus were conducive to learning. | 38.2% (1599) | 49.6% (2080) | 8.5% (357) | 2.5% (105) | 1.2% (49) |
| 81. 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. | 35.7% (1497) | 49.4% (2068) | 10.6% (443) | 2.9% (121) | 1.5% (61) |
| 82. On-campus access to educational resources (e.g., library, electronic data bases, drug information center) was conducive to learning. | 50.0% (2094) | 45.5% (1907) | 3.2% (132) | 0.9% (38) | 0.5% (19) |
| 83. During pharmacy practice experiences access to educational resources (e.g. library, electronic data bases, drug information center) was conducive to learning. | 47.5% (1989) | 48.5% (2033) | 2.8% (117) | 0.7% (29) | 0.5% (22) |

SECTION VII: Overall Impressions

| Indicate the degree to which you agree or disagree with these statements. | | | | | |
|---|-----------------------|---------------------|-----------------|--------------------------|--------------------------|
| | Strongly Agree | Agree | Disagree | Strongly Disagree | Unable to Comment |
| 84. I am prepared to enter pharmacy practice. | 42.1% (1764) | 54.1% (2268) | 2.4% (99) | 0.4% (17) | 1.0% (42) |
| 85. If I were starting my college career over again I would choose to study pharmacy. | 49.5% (2073) | 38.1% (1597) | 7.6% (317) | 1.8% (74) | 3.1% (129) |
| 86. If I were starting my pharmacy program over again I would choose the same college/school of pharmacy. | 50.1% (2100) | 36.6% (1532) | 6.7% (280) | 3.0% (125) | 3.7% (153) |
| 87. I would recommend a career in pharmacy to a friend or relative. | 49.5% (2076) | 40.1% (1681) | 5.8% (244) | 1.2% (51) | 3.3% (138) |