

PAEA RESEARCH

**Curriculum
Report 4** | **Prerequisites**

By the Numbers | Data from the 2018 Prerequisite Curriculum Survey



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BY THE NUMBERS

CURRICULUM REPORT 4: DATA FROM THE 2018 PREREQUISITE CURRICULUM SURVEY

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INTRODUCTION

Physician Assistant Education Association

Founded in 1972, the Physician Assistant Education Association (PAEA) is the only national organization representing PA education programs in the United States. At the time of the 2018 Prerequisite Curriculum Survey administration in June 2018, PAEA represented 236 PA programs. For more information about PAEA and our products and services, visit PAEAonline.org.

METHODS

Survey Instrument

The 2018 Prerequisite Curriculum Survey collected data that are reported in the following sections:

Section 1. Program characteristics

Includes general information regarding the types of PA programs represented in the dataset (e.g., geographic information, administrative housing) as collected in the 2018 Program Survey, as well as information on credits, credentials, and incoming class sizes.

Section 2. Required prerequisite coursework, health care experience, and tests

Includes information on the types of required prerequisite coursework, health care experiences, and standardized tests, as well as reasons and restrictions for these requirements.

Section 3: Applications and admissions

Includes information on types of students admitted, student preferences and pathways, and components of the application and interview processes.

Section 4: Curricular design

Includes information on program mission, curricular focus, special tracks, and more.

The data in all sections of the survey reflect the 2017–2018 academic year.

Survey Administration

The Curriculum Survey is administered in three parts that rotate annually and that correspond to the major phases of PA school: the prerequisites/admissions phase, the didactic phase, and the clinical phase. Thus far, the Prerequisite Curriculum Survey has been administered in 2015 and 2018, the Didactic Curriculum Survey administered in 2016 and 2019, and the Clinical Curriculum Survey administered in 2017. Reports on each of the survey results are published the year following administration.

To streamline data collection, the 2018 Prerequisite Curriculum Survey was combined with the 2018 Program Directory Survey, which collected information for [PAEA's Program Directory](#), a searchable repository of PA programs. The content of the two surveys overlapped significantly but not entirely. All items pertaining to the Prerequisite Curriculum Survey were required of the 236 accredited programs. Participation in the Program Directory is a PAEA member benefit; thus, response to items specific to the Program Directory Survey was optional. All items that pertained to the Prerequisite Curriculum Survey only were clearly marked.

The combined 2018 Program Directory and Prerequisite Curriculum Survey was sent to the program directors of all PAEA programs, including both developing and accredited programs. This report only includes data from the 236 accredited member programs. The PAEA Research Team sent email reminders to non-respondents and conducted follow-up calls between April and October 2018 until all 236 accredited member programs had completed the survey. The survey closed in October 2018. Completion of both portions of the combined survey was optional for developing programs but Prerequisite Curriculum Survey completion was required of all 236 accredited member programs. Based on the 236 accredited member programs targeted for the Prerequisite Curriculum Survey, the survey yielded an overall response rate of 100%; however, the response rate varied for individual items.

Data Cleaning & Analysis

Responses to multiple-choice questions were checked for logical consistency and examined for extreme values and possible errors. In cases of obvious misinterpretations or inconsistencies in the responses to specific items, respondents were contacted for clarification. Responses that fell outside of reasonable parameters were not included in the analyses. The number of responses to individual survey items varied slightly. The tables and figures presented in this report display aggregate data from the respondents.

In general, analyses of the data consisted of calculating descriptive statistics on the variables of interest — percentage, minimum and maximum values (range), arithmetic mean (***M***), standard deviation (***SD***), median (***Mdn***), and percentiles (***P***). Tables describing financial information also include a 10% trimmed mean (***M (T)***), or the mean when the bottom and top 10% of responses are excluded. For some tables and figures, percentages will not equal 100% due to rounding or when multiple responses were allowed. Total columns on tables and figures are designated by ***n***. Exact financial data were not reported if there were fewer than five respondents. Any other notations not described here are defined in the body of the report.

Questions & Data Requests

The data from the 2018 Prerequisite Curriculum Survey, as well as custom reports using these data, are available upon request. More information is available in PAEA's [Data Request & Sharing Policies](#). Please direct inquiries regarding data requests or this report to the Research Team at research@PAEAonline.org.

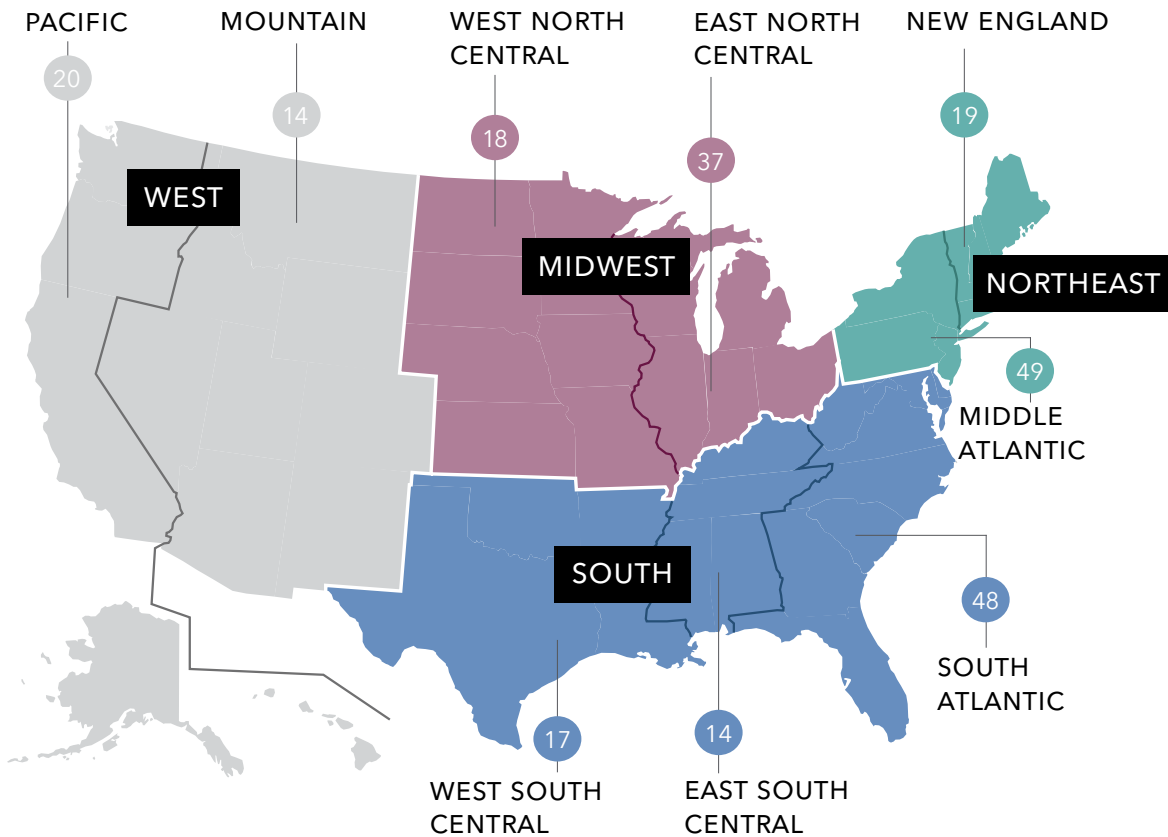
SECTION 1. PROGRAM CHARACTERISTICS

TABLE 1. SPONSORING INSTITUTION ATTRIBUTES

	<i>n</i>	%
Type of institution		
Private, non-profit	147	62.3
Public	71	30.1
Private, for-profit	15	6.4
Public/private hybrid	2	0.8
Military	1	0.4
AHC status		
Non-Academic Health Center	167	70.8
Academic Health Center	69	29.2
Administrative housing		
School of Allied Health/ Health Professions/ Health Sciences	120	50.8
Department of PA Studies/PA Program	39	16.5
College/School of Medicine	36	15.3
College of Arts and Sciences	13	5.5
College of Graduate and Professional Studies	13	5.5
Other health discipline (e.g., Nursing, Pharmacy, Podiatry, etc.)	9	3.8
Science Department	6	2.5
Total	236	100.0

Note: This information was collected in the Program Survey, which was administered concurrently. Please see [Program Report 34](#) for more information.

FIGURE 1. U.S. CENSUS BUREAU REGIONS AND DIVISIONS



REGION 1 NORTHEAST
68 PROGRAMS

DIVISION 1 NEW ENGLAND

- Connecticut (6)
- Maine (1)
- Massachusetts (8)
- New Hampshire (2)
- Rhode Island (2)
- Vermont (0)

DIVISION 2 MIDDLE ATLANTIC

- New Jersey (3)
- New York (23)
- Pennsylvania (23)

REGION 2 MIDWEST
55 PROGRAMS

DIVISION 3 EAST NORTH CENTRAL

- Illinois (6)
- Indiana (7)
- Michigan (6)
- Ohio (13)
- Wisconsin (5)

DIVISION 4 WEST NORTH CENTRAL

- Iowa (4)
- Kansas (1)
- Minnesota (4)
- Missouri (4)
- Nebraska (3)
- North Dakota (1)
- South Dakota (1)

REGION 3 SOUTH
79 PROGRAMS

DIVISION 5 SOUTH ATLANTIC

- Delaware (0)
- District of Columbia (1)
- Florida (14)
- Georgia (4)
- Maryland (2)
- North Carolina (11)
- South Carolina (5)
- Virginia (8)
- West Virginia (3)

DIVISION 6 EAST SOUTH CENTRAL

- Alabama (2)
- Kentucky (3)
- Mississippi (1)
- Tennessee (8)

DIVISION 7 WEST SOUTH CENTRAL

- Arkansas (2)
- Louisiana (3)
- Oklahoma (3)
- Texas (9)

REGION 4 WEST
34 PROGRAMS

DIVISION 8 MOUNTAIN

- Arizona (3)
- Colorado (3)
- Idaho (1)
- Montana (1)
- Nevada (2)
- New Mexico (2)
- Utah (2)
- Wyoming (0)

DIVISION 9 PACIFIC

- Alaska (0)
- California (16)
- Hawaii (0)
- Oregon (2)
- Washington (2)

Note: Numbers in parentheses indicate the number of PAEA member programs in each state.

TABLE 2. GEOGRAPHIC DISTRIBUTION OF PA PROGRAMS

	<i>n</i>	%
Northeast Region		
New England Division	19	8.1
Middle Atlantic Division	49	20.8
Subtotal	68	28.8
Midwest Region		
East North Central Division	37	15.7
West North Central Division	18	7.6
Subtotal	55	23.3
South Region		
South Atlantic Division	48	20.3
East South Central Division	14	5.9
West South Central Division	17	7.2
Subtotal	79	33.5
West Region		
Mountain Division	14	5.9
Pacific Division	20	8.5
Subtotal	34	14.4
Total	236	100.0

TABLE 3. TOTAL PA PROGRAM LENGTH (MONTHS)

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
PA program length	236	20.0-36.0	26.8	2.5	27.0

TABLE 4. NUMBER OF ACADEMIC CREDITS REQUIRED FOR PROGRAM COMPLETION

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	P10	P25	P50 (<i>Mdn</i>)	P75	P90
Didactic coursework/Classroom phase	231	26.5-141.0	65.3	15.7	48.0	55.8	65.0	72.0	86.0
Clinical rotations/Clinical coursework/ Supervised clinical practice	231	10.0-81.0	45.7	12.4	30.0	37.0	46.0	52.0	61.0
Other hours	39	2.0-50.0	9.0	10.3	3.0	4.0	6.0	8.0	14.6
Total credits	231	54.0-187.0	112.6	21.2	90.0	99.0	110.0	123.0	142.0

Note: Zeroes were excluded from calculations of "other hours." Total credits was calculated by summing the number of required didactic, clinical, and other credits.

TABLE 5. CREDENTIALS OFFERED TO GRADUATES ENTERING THE PA PROGRAM IN 2019

	<i>n</i>	%
Certificate	9	3.8
Associate	0	0.0
Bachelor	8	3.4
Master	232	99.1
Doctorate	0	0.0
Total	234	-

All programs offering a certificate, and 6 of the 8 programs offering a bachelor's degree, offer a master's degree as well. Programs may offer both a certificate and a degree.

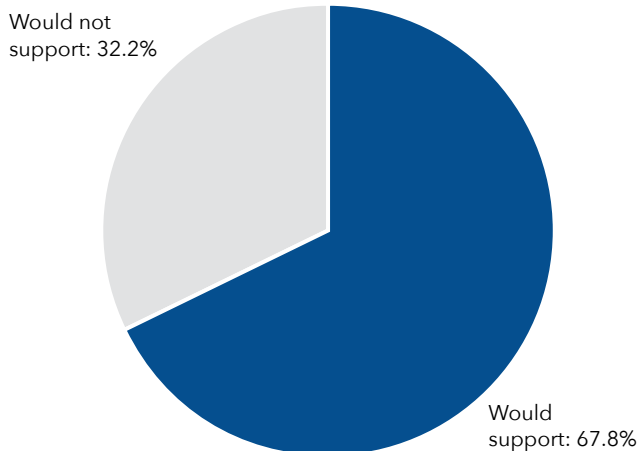
Note: Programs that selected "Prefer not to answer" were excluded. Percentages may sum to more than 100% because programs could select multiple credentials.

TABLE 6. ESTIMATED SIZE OF INCOMING CLASS

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	P10	P25	P50 (<i>Mdn</i>)	P75	P90
Class size	234	17.0-200.0	47.6	22.6	27.3	30.0	42.0	58.8	75.0

SECTION 2. REQUIRED PREREQUISITE COURSEWORK, HEALTH CARE EXPERIENCE, AND TESTS

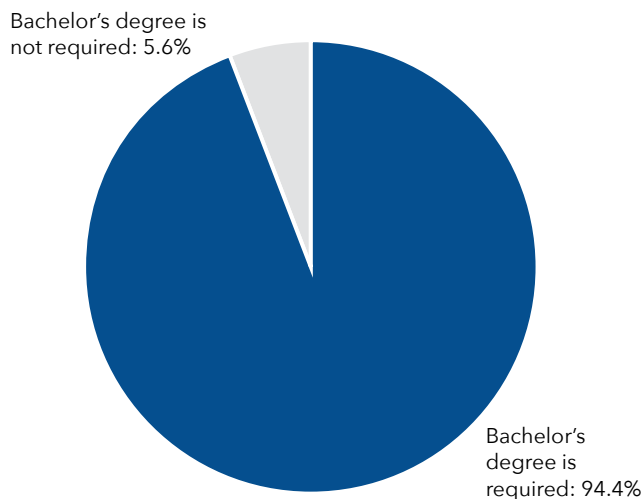
FIGURE 2. SUPPORT FOR UNIVERSAL PREREQUISITES



Note: n = 233 responding programs

Anecdotally and as quantified in this report, there is wide variability among PA programs regarding the prerequisites required for admission. Programs were asked whether they would support an effort by PA education to develop a list of universal academic course prerequisites for admission to all PA programs.

FIGURE 3. IS A BACHELOR'S DEGREE REQUIRED FOR ENTRY INTO THE GRADUATE PROGRAM?



Note: n = 234 responding programs

These data include programs that admit students into a pre-professional phase prior to completing a bachelor's degree, ultimately resulting in a master's degree upon completion of PA training.

Prerequisite Coursework

Programs were asked to indicate which of a list of courses they required prospective students to complete prior to entering the graduate, professional phase of the program. Subsequently, for each required prerequisite course, programs were asked to report their reasons for the requirement, the minimum number of semester hours required, the minimum grade required, and any restrictions upon accepting the coursework.

Results are presented in two ways. First, results for all courses are presented together (pp. 7–12). Second, the results are re-organized into “Prerequisite Profiles” for the 12 prerequisite courses required by at least 20% of responding programs. These Prerequisite Profiles contain the same information reported in the aggregate tables but are organized individually by course for easy reference. These 12 courses are:

- Anatomy
- Biochemistry
- Biology (general)
- Biology (microbiology)
- Chemistry (general)
- Chemistry (organic)
- English composition/Writing
- Genetics
- Medical terminology
- Physiology
- Psychology (general)
- Statistics

TABLE 7. PREREQUISITE COURSES REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	n	%
Anatomy	221	94.4
Behavioral science	41	17.5
Biochemistry	97	41.5
Biology (general)	151	64.5
Biology (cell)	12	5.1
Biology (microbiology)	188	80.3
Biology (other)	27	11.5
Chemistry (general)	196	83.8
Chemistry (organic)	128	54.7
CPR	25	10.7
English composition/Writing	72	30.8
English literature	10	4.3
English (speech)	9	3.8
Ethics	10	4.3
Foreign language	0	0.0
Genetics	65	27.8
Government	3	1.3
History	3	1.3
Humanities	27	11.5
Math (general)	16	6.8
Math (algebra)	37	15.8
Math (pre-calculus)	12	5.1
Math (calculus)	7	3.0
Medical ethics	4	1.7
Medical terminology	90	38.5
Nutrition	4	1.7
Physics	8	3.4
Psychology (general)	142	60.7
Psychology (abnormal)	20	8.5
Psychology (developmental)	26	11.1
Physiology	195	83.3
Spanish	2	0.9
Statistics	174	74.4
Other	58	24.8
Total	234	-

Programs had the option to indicate that no prerequisite courses were required. Although not all programs responded, no programs indicated that they did not require prerequisite courses. Among the 234 responding programs, the average number of required prerequisite courses from this 33-course list was 8.6 (**range** = 1–20, **SD** = 2.8, **Mdn** = 8.0). “Other” prerequisite courses were excluded from these figures. Foreign language, government, history, medical ethics, nutrition, and Spanish were excluded from subsequent tables due to the low frequency of programs requiring these prerequisite courses.

Note: Programs were instructed to select the course names that most closely aligned with their requirements. Percentages may sum to more than 100% because programs could select multiple credentials.

FIGURE 4. PREREQUISITE COURSES REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE (%)

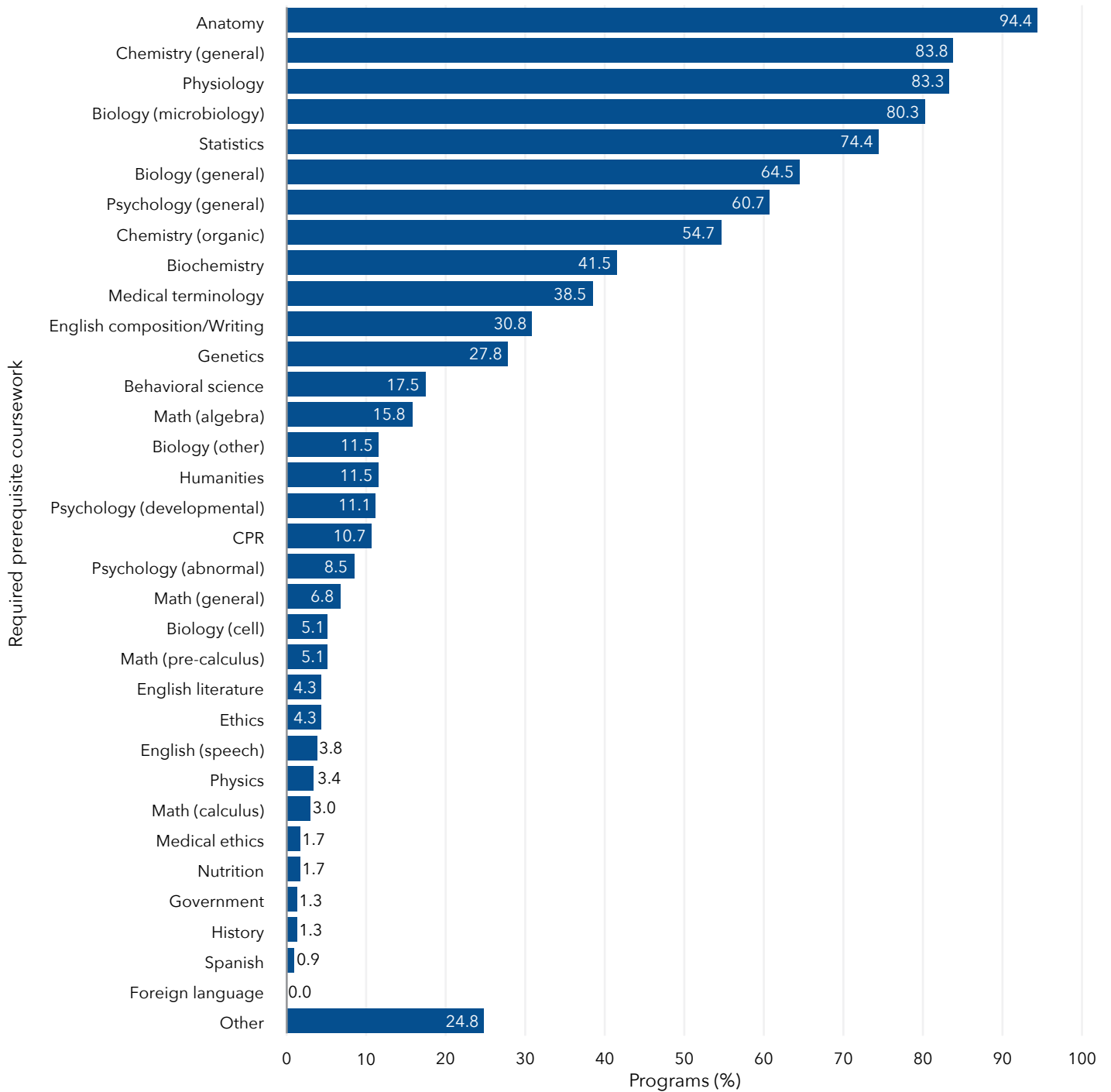


TABLE 8. REASONS PREREQUISITE COURSES ARE REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	N	Foundation for program course(s)		Substitute for course(s) not included in the program curriculum		Institutional requirement		State requirement		Other reason	
		n	%	n	%	n	%	n	%	n	%
Anatomy	220	220	100.0	2	0.9	6	2.7	1	0.5	0	0.0
Behavioral science	41	39	95.1	0	0.0	5	12.2	0	0.0	0	0.0
Biochemistry	95	95	100.0	0	0.0	3	3.2	0	0.0	0	0.0
Biology (general)	150	149	99.3	2	1.3	5	3.3	0	0.0	1	0.7
Biology (cell)	120	12	10.0	0	0.0	1	0.8	0	0.0	0	0.0
Biology (microbiology)	187	187	100.0	4	2.1	6	3.2	0	0.0	0	0.0
Biology (other)	27	26	96.3	1	3.7	0	0.0	0	0.0	0	0.0
Chemistry (general)	195	189	96.9	5	2.6	7	3.6	1	0.5	5	2.6
Chemistry (organic)	127	124	97.6	2	1.6	3	2.4	0	0.0	3	2.4
CPR	25	21	84.0	0	0.0	3	12.0	0	0.0	3	12.0
English composition/Writing	72	61	84.7	2	2.8	12	16.7	3	4.2	3	4.2
English literature	9	5	55.6	0	0.0	5	55.6	0	0.0	0	0.0
English (speech)	5	5	100.0	0	0.0	5	100.0	0	0.0	0	0.0
Ethics	10	7	70.0	0	0.0	3	30.0	0	0.0	0	0.0
Genetics	65	65	100.0	0	0.0	0	0.0	0	0.0	0	0.0
Humanities	26	19	73.1	1	3.8	10	38.5	1	3.8	0	0.0
Math (general)	16	14	87.5	0	0.0	3	18.8	0	0.0	0	0.0
Math (algebra)	35	35	100.0	3	8.6	4	11.4	1	2.9	0	0.0
Math (pre-calculus)	11	8	72.7	0	0.0	2	18.2	1	9.1	0	0.0
Math (calculus)	7	7	100.0	0	0.0	0	0.0	0	0.0	0	0.0
Medical terminology	90	89	98.9	5	5.6	2	2.2	0	0.0	1	1.1
Physics	8	8	100.0	0	0.0	0	0.0	0	0.0	0	0.0
Psychology (general)	141	137	97.2	1	0.7	4	2.8	1	0.7	1	0.7
Psychology (abnormal)	20	20	100.0	0	0.0	1	5.0	0	0.0	0	0.0
Psychology (developmental)	26	25	96.2	0	0.0	3	11.5	1	3.8	0	0.0
Physiology	194	194	100.0	3	1.5	6	3.1	1	0.5	0	0.0
Statistics	172	170	98.8	1	0.6	6	3.5	0	0.0	1	0.6

Note: N refers to the total number of programs that reported reasons for requiring each course. n refers to the number of programs that reported requiring each course for a particular reason. Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 9. MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR PREREQUISITE COURSES

	<i>n</i>	% reporting	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Anatomy	202	91.4	1.0-8.0	4.2	1.5	4.0
Behavioral science	35	85.4	3.0-9.0	4.5	1.9	3.0
Biochemistry	81	83.5	3.0-4.0	3.1	0.3	3.0
Biology (general)	140	92.7	3.0-16.0	5.7	2.3	4.0
Biology (cell)	10	83.3	3.0-8.0	3.8	1.5	3.0
Biology (microbiology)	168	89.4	1.0-5.0	3.5	0.6	4.0
Biology (other)	25	92.6	3.0-16.0	5.3	3.4	4.0
Chemistry (general)	180	91.8	1.0-16.0	6.4	2.4	8.0
Chemistry (organic)	119	93.0	1.0-8.0	4.1	1.4	4.0
CPR	7	28.0	1.0-6.0	2.3	2.0	1.0
English composition/Writing	65	90.3	1.0-8.0	4.2	1.6	3.0
English literature	10	100.0	3.0-6.0	3.6	1.3	3.0
English (speech)	7	77.8	1.0-2.0	1.1	0.4	1.0
Ethics	7	70.0	3.0-4.0	3.1	0.4	3.0
Genetics	58	89.2	2.0-4.0	3.1	0.4	3.0
Humanities	25	92.6	3.0-16.0	6.2	3.3	6.0
Math (general)	16	100.0	3.0-6.0	3.4	1.0	3.0
Math (algebra)	36	97.3	3.0-6.0	3.1	0.5	3.0
Math (pre-calculus)	11	91.7	3.0-3.0	3.0	0.0	3.0
Math (calculus)	7	100.0	3.0-6.0	3.4	1.1	3.0
Medical terminology	76	84.4	1.0-3.0	1.4	0.7	1.0
Physics	7	87.5	3.0-4.0	3.4	0.5	3.0
Psychology (general)	132	93.0	2.0-9.0	3.3	1.2	3.0
Psychology (abnormal)	17	85.0	2.0-3.0	2.9	0.3	3.0
Psychology (developmental)	25	96.2	1.0-3.0	2.9	0.4	3.0
Physiology	176	90.3	3.0-8.0	3.8	1.1	4.0
Statistics	160	92.0	1.0-9.0	3.0	0.7	3.0

Programs were asked to report the minimum number of semester credit hours required for each required prerequisite course. In cases when a program reported a range, we retained the minimum value. For example, a report of 3–4 minimum semester credit hours would be recoded as 3.

Note: % reporting refers to the proportion of programs requiring each course that also reported a minimum number of semester hours for that course. Zeroes were excluded prior to analysis. Prerequisite courses for which fewer than 5 programs reported minimum semester hours were excluded from this table (i.e., government, history, medical ethics, nutrition, Spanish).

TABLE 10. MINIMUM GRADE REQUIRED FOR PREREQUISITE COURSES

	N	% reporting	B+		B		B-		C+		C		C-		Pass	
			n	%	n	%	n	%	n	%	n	%	n	%	n	%
Anatomy	171	77.4	2	1.2	27	15.8	17	9.9	3	1.8	115	67.3	7	4.1	0	0.0
Behavioral science	31	75.6	0	0.0	1	3.2	2	6.5	1	3.2	24	77.4	3	9.7	0	0.0
Biochemistry	71	73.2	1	1.4	8	11.3	5	7.0	1	1.4	53	74.6	3	4.2	0	0.0
Biology (general)	113	74.8	0	0.0	18	15.9	11	9.7	1	0.9	77	68.1	6	5.3	0	0.0
Biology (cell)	7	58.3	0	0.0	1	14.3	0	0.0	0	0.0	6	85.7	0	0.0	0	0.0
Biology (microbiology)	145	77.1	2	1.4	21	14.5	13	9.0	2	1.4	100	69.0	7	4.8	0	0.0
Biology (other)	20	74.1	0	0.0	2	10.0	1	5.0	0	0.0	14	70.0	3	15.0	0	0.0
Chemistry (general)	146	74.5	1	0.7	22	15.1	15	10.3	3	2.1	98	67.1	7	4.8	0	0.0
Chemistry (organic)	96	75.0	0	0.0	6	6.3	10	10.4	3	3.1	71	74.0	6	6.3	0	0.0
CPR	13	52.0	0	0.0	1	7.7	1	7.7	0	0.0	5	38.5	1	7.7	5	38.5
English composition/ Writing	53	73.6	0	0.0	6	11.3	4	7.5	1	1.9	39	73.6	3	5.7	0	0.0
English literature	9	90.0	0	0.0	1	11.1	2	22.2	1	11.1	4	44.4	1	11.1	0	0.0
English (speech)	5	55.6	0	0.0	0	0.0	0	0.0	1	20.0	4	80.0	0	0.0	0	0.0
Ethics	8	80.0	0	0.0	1	12.5	0	0.0	1	12.5	5	62.5	1	12.5	0	0.0
Genetics	54	83.1	0	0.0	9	16.7	6	11.1	2	3.7	33	61.1	4	7.4	0	0.0
Humanities	21	77.8	0	0.0	2	9.5	3	14.3	1	4.8	14	66.7	1	4.8	0	0.0
Math (general)	13	81.3	0	0.0	2	15.4	1	7.7	1	7.7	9	69.2	0	0.0	0	0.0
Math (algebra)	27	73.0	0	0.0	4	14.8	2	7.4	1	3.7	18	66.7	2	7.4	0	0.0
Math (pre-calculus)	7	58.3	0	0.0	1	14.3	2	28.6	1	14.3	3	42.9	0	0.0	0	0.0
Math (calculus)	7	100.0	0	0.0	0	0.0	1	14.3	0	0.0	3	42.9	3	42.9	0	0.0
Medical terminology	67	74.4	1	1.5	9	13.4	5	7.5	1	1.5	46	68.7	4	6.0	1	1.5
Physics	5	62.5	0	0.0	1	20.0	1	20.0	1	20.0	2	40.0	0	0.0	0	0.0
Psychology (general)	106	74.6	1	0.9	16	15.1	9	8.5	2	1.9	75	70.8	3	2.8	0	0.0
Psychology (abnormal)	13	65.0	0	0.0	2	15.4	1	7.7	1	7.7	9	69.2	0	0.0	0	0.0
Psychology (developmental)	19	73.1	1	5.3	3	15.8	1	5.3	1	5.3	12	63.2	1	5.3	0	0.0
Physiology	150	76.9	2	1.3	26	17.3	15	10.0	2	1.3	98	65.3	7	4.7	0	0.0
Statistics	137	78.7	1	0.7	23	16.8	10	7.3	3	2.2	94	68.6	6	4.4	0	0.0

Note: N refers to the total number of programs that reported a minimum grade for each course. n refers to the number of programs that reported each minimum required grade. % reporting refers to the proportion of programs requiring each course that reported a minimum grade for that course.

Programs were asked to report the minimum grade required for each required prerequisite course. Programs could report either a numeric grade, using a 4.0 scale, or a letter grade. Prior to analysis, all numeric grades were converted to letter grades using [CollegeBoard's conversion guidelines](#). For example, a program-reported minimum grade of 1.7 would be converted to a C- letter grade. Some programs wrote "pass" for CPR and medical terminology; this was not converted to a letter grade but reported separately.

TABLE 11. RESTRICTIONS FOR ACCEPTING REQUIRED PREREQUISITE COURSEWORK

	N	% reporting	Time limit		Not web-based		Upper division		Lower/ Introductory level		Full sequence		Lab required		Other restriction	
			n	%	n	%	n	%	n	%	n	%	n	%	n	%
Anatomy	201	91.0	105	52.2	54	26.9	32	15.9	11	5.5	42	20.9	144	71.6	7	3.5
Behavioral science	19	46.3	8	42.1	5	26.3	0	0.0	8	42.1	1	5.3	0	0.0	0	0.0
Biochemistry	63	64.9	35	55.6	9	14.3	29	46.0	1	1.6	0	0.0	9	14.3	1	1.6
Biology (general)	130	86.1	49	37.7	33	25.4	15	11.5	14	10.8	18	13.8	103	79.2	2	1.5
Biology (cell)	11	91.7	3	27.3	4	36.4	5	45.5	0	0.0	0	0.0	5	45.5	0	0.0
Biology (microbiology)	162	86.2	79	48.8	29	17.9	8	4.9	8	4.9	117	72.2	5	3.1	9	5.6
Biology (other)	24	88.9	9	37.5	6	25.0	11	45.8	0	0.0	0	0.0	7	29.2	0	0.0
Chemistry (general)	174	88.8	67	38.5	40	23.0	21	12.1	21	12.1	31	17.8	146	83.9	6	3.4
Chemistry (organic)	107	83.6	48	44.9	8	7.5	8	7.5	5	4.7	10	9.3	74	69.2	3	2.8
CPR	10	40.0	6	60.0	0	0.0	1	10.0	2	20.0	1	10.0	0	0.0	0	0.0
English composition/ Writing	28	38.9	13	46.4	4	14.3	1	3.6	10	35.7	2	7.1	0	0.0	0	0.0
English literature	4	40.0	1	25.0	1	25.0	0	0.0	2	50.0	1	25.0	0	0.0	0	0.0
English (speech)	2	22.2	1	50.0	0	0.0	0	0.0	1	50.0	0	0.0	0	0.0	0	0.0
Ethics	6	60.0	4	66.7	1	16.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Genetics	41	63.1	26	63.4	8	19.5	8	19.5	3	7.3	1	2.4	3	7.3	3	7.3
Humanities	19	70.4	2	10.5	2	10.5	1	5.3	4	21.1	1	5.3	0	0.0	0	0.0
Math (general)	6	37.5	3	50.0	1	16.7	1	16.7	1	16.7	1	16.7	0	0.0	0	0.0
Math (algebra)	19	51.4	5	26.3	4	21.1	5	26.3	6	31.6	1	5.3	0	0.0	0	0.0
Math (pre-calculus)	7	58.3	4	57.1	1	14.3	2	28.6	2	28.6	1	14.3	0	0.0	0	0.0
Math (calculus)	5	71.4	2	40.0	1	20.0	0	0.0	2	40.0	0	0.0	0	0.0	0	0.0
Medical terminology	39	43.3	26	66.7	1	2.6	4	10.3	8	20.5	1	2.6	0	0.0	2	5.1
Physics	6	75.0	3	50.0	0	0.0	1	16.7	2	33.3	0	0.0	2	33.3	0	0.0
Psychology (general)	72	50.7	39	54.2	9	12.5	4	5.6	22	30.6	1	1.4	1	1.4	2	2.8
Psychology (abnormal)	14	70.0	8	57.1	1	7.1	3	21.4	3	21.4	0	0.0	0	0.0	1	7.1
Psychology (developmental)	15	57.7	6	40.0	2	13.3	5	33.3	3	20.0	0	0.0	0	0.0	2	13.3
Physiology	168	86.2	95	56.5	42	25.0	27	16.1	11	6.5	35	20.8	96	57.1	8	4.8
Statistics	90	51.7	55	61.1	13	14.4	12	13.3	19	21.1	3	3.3	1	1.1	4	4.4

Note: N refers to the total number of programs that reported coursework restrictions. n refers to the number of programs that reported a particular restriction for each course. % reporting refers to the proportion of programs requiring each course that reported at least one coursework restriction. Percentages may sum to more than 100% because programs could select multiple restrictions.

Prerequisite Profiles

In this section, the results from the previous tables are re-organized into “Prerequisite Profiles” for the 12 prerequisite courses required by at least 20% of responding programs. These Prerequisite Profiles contain the same information reported in the aggregate tables but are organized individually by course for easy reference.

Anatomy

94.4% ($n = 221$) of responding programs required students to take anatomy before entering the graduate, professional phase of the program.

TABLE 12. ANATOMY: REASONS COURSE IS REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	%
Foundation for program course(s)	220	100.0
Substitute for course(s) not included in the program curriculum	2	0.9
Institutional requirement	6	2.7
State requirement	1	0.5
Other reason	0	0.0
Total	220	-

Note: Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 13. ANATOMY: MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR COURSE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Semester hours	202	1.0-8.0	4.2	1.5	4.0

TABLE 14. ANATOMY: MINIMUM GRADE REQUIRED FOR COURSE

	<i>n</i>	%
B+	2	1.2
B	27	15.8
B-	17	9.9
C+	3	1.8
C	115	67.3
C-	7	4.1
Total	171	100.0

TABLE 15. ANATOMY: RESTRICTIONS FOR ACCEPTING COURSEWORK

	<i>n</i>	%
Time limit	105	52.2
Not web-based	54	26.9
Upper division	32	15.9
Lower/Introductory level	11	5.5
Full sequence	42	20.9
Lab required	144	71.6
Other restriction	7	3.5
Total	201	-

Note: Percentages may sum to more than 100% because programs could select multiple restrictions.

Biochemistry

41.5% ($n = 97$) of responding programs required students to take biochemistry before entering the graduate, professional phase of the program.

TABLE 16. BIOCHEMISTRY: REASONS COURSE IS REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	%
Foundation for program course(s)	95	100.0
Substitute for course(s) not included in the program curriculum	0	0.0
Institutional requirement	3	3.2
State requirement	0	0.0
Other reason	0	0.0
Total	95	-

Note: Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 17. BIOCHEMISTRY: MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR COURSE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Semester hours	81	3.0-4.0	3.1	0.3	3.0

TABLE 18. BIOCHEMISTRY: MINIMUM GRADE REQUIRED FOR COURSE

	<i>n</i>	%
B+	1	1.4
B	8	11.3
B-	5	7.0
C+	1	1.4
C	53	74.6
C-	3	4.2
Total	71	100.0

TABLE 19. BIOCHEMISTRY: RESTRICTIONS FOR ACCEPTING COURSEWORK

	<i>n</i>	%
Time limit	35	55.6
Not web-based	9	14.3
Upper division	29	46.0
Lower/Introductory level	1	1.6
Full sequence	0	0.0
Lab required	9	14.3
Other restriction	1	1.6
Total	63	-

Note: Percentages may sum to more than 100% because programs could select multiple restrictions.

Biology (General)

64.5% ($n = 151$) of responding programs required students to take biology (general) before entering the graduate, professional phase of the program.

TABLE 20. BIOLOGY (GENERAL): REASONS COURSE IS REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	%
Foundation for program course(s)	149	99.3
Substitute for course(s) not included in the program curriculum	2	1.3
Institutional requirement	5	3.3
State requirement	0	0.0
Other reason	1	0.7
Total	150	-

Note: Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 21. BIOLOGY (GENERAL): MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR COURSE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Semester hours	140	3.0-16.0	5.7	2.3	4.0

TABLE 22. BIOLOGY (GENERAL): MINIMUM GRADE REQUIRED FOR COURSE

	<i>n</i>	%
B+	0	0.0
B	18	15.9
B-	5	7.0
C+	1	0.9
C	77	68.1
C-	6	5.3
Total	113	100.0

TABLE 23. BIOLOGY (GENERAL): RESTRICTIONS FOR ACCEPTING COURSEWORK

	<i>n</i>	%
Time limit	49	37.7
Not web-based	33	25.4
Upper division	15	11.5
Lower/Introductory level	14	10.8
Full sequence	18	13.8
Lab required	103	79.2
Other restriction	2	1.5
Total	130	-

Note: Percentages may sum to more than 100% because programs could select multiple restrictions.

Biology (Microbiology)

80.3% ($n = 188$) of responding programs required students to take biology (microbiology) before entering the graduate, professional phase of the program.

TABLE 24. BIOLOGY (MICROBIOLOGY): REASONS COURSE IS REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	%
Foundation for program course(s)	187	100.0
Substitute for course(s) not included in the program curriculum	4	2.1
Institutional requirement	6	3.2
State requirement	0	0.0
Other reason	0	0.0
Total	187	-

Note: Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 25. BIOLOGY (MICROBIOLOGY): MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR COURSE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Semester hours	168	1.0-5.0	3.5	0.6	4.0

TABLE 26. BIOLOGY (MICROBIOLOGY): MINIMUM GRADE REQUIRED FOR COURSE

	<i>n</i>	%
B+	2	1.4
B	21	14.5
B-	13	9.0
C+	2	1.4
C	100	69.0
C-	7	4.8
Total	145	100.0

TABLE 27. BIOLOGY (MICROBIOLOGY): RESTRICTIONS FOR ACCEPTING COURSEWORK

	<i>n</i>	%
Time limit	79	48.8
Not web-based	29	17.9
Upper division	8	4.9
Lower/Introductory level	8	4.9
Full sequence	117	72.2
Lab required	5	3.1
Other restriction	9	5.6
Total	162	-

Note: Percentages may sum to more than 100% because programs could select multiple restrictions.

Chemistry (General)

83.8% ($n = 196$) of responding programs required students to take chemistry (general) before entering the graduate, professional phase of the program.

TABLE 28. CHEMISTRY (GENERAL): REASONS COURSE IS REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	%
Foundation for program course(s)	189	96.9
Substitute for course(s) not included in the program curriculum	5	2.6
Institutional requirement	7	3.6
State requirement	1	0.5
Other reason	5	2.6
Total	195	-

Note: Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 29. CHEMISTRY (GENERAL): MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR COURSE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Semester hours	180	1.0-16.0	6.4	2.4	8.0

TABLE 30. CHEMISTRY (GENERAL): MINIMUM GRADE REQUIRED FOR COURSE

	<i>n</i>	%
B+	1	0.7
B	22	15.1
B-	15	10.3
C+	3	2.1
C	98	67.1
C-	7	4.8
Total	146	100.0

TABLE 31. CHEMISTRY (GENERAL): RESTRICTIONS FOR ACCEPTING COURSEWORK

	<i>n</i>	%
Time limit	67	38.5
Not web-based	40	23.0
Upper division	21	12.1
Lower/Introductory level	21	12.1
Full sequence	31	17.8
Lab required	146	83.9
Other restriction	6	3.4
Total	174	-

Note: Percentages may sum to more than 100% because programs could select multiple restrictions.

Chemistry (Organic)

54.7% ($n = 128$) of responding programs required students to take chemistry (organic) before entering the graduate, professional phase of the program.

TABLE 32. CHEMISTRY (ORGANIC): REASONS COURSE IS REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	%
Foundation for program course(s)	124	97.6
Substitute for course(s) not included in the program curriculum	2	1.6
Institutional requirement	3	2.4
State requirement	0	0.0
Other reason	3	2.4
Total	127	-

Note: Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 33. CHEMISTRY (ORGANIC): MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR COURSE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Semester hours	119	1.0-8.0	4.1	1.4	4.0

TABLE 34. CHEMISTRY (ORGANIC): MINIMUM GRADE REQUIRED FOR COURSE

	<i>n</i>	%
B+	0	0.0
B	6	6.3
B-	10	10.4
C+	3	3.1
C	71	74.0
C-	6	6.3
Total	96	100.0

TABLE 35. CHEMISTRY (ORGANIC): RESTRICTIONS FOR ACCEPTING COURSEWORK

	<i>n</i>	%
Time limit	48	44.9
Not web-based	8	7.5
Upper division	8	7.5
Lower/Introductory level	5	4.7
Full sequence	10	9.3
Lab required	74	69.2
Other restriction	3	2.8
Total	107	-

Note: Percentages may sum to more than 100% because programs could select multiple restrictions.

English Composition/Writing

30.8% ($n = 72$) of responding programs required students to take English composition/writing before entering the graduate, professional phase of the program.

TABLE 36. ENGLISH COMPOSITION/WRITING: REASONS COURSE IS REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	%
Foundation for program course(s)	61	84.7
Substitute for course(s) not included in the program curriculum	2	2.8
Institutional requirement	12	16.7
State requirement	3	4.2
Other reason	3	4.2
Total	72	-

Note: Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 37. ENGLISH COMPOSITION/WRITING: MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR COURSE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Semester hours	65	1.0-8.0	4.2	1.6	3.0

TABLE 38. ENGLISH COMPOSITION/WRITING: MINIMUM GRADE REQUIRED FOR COURSE

	<i>n</i>	%
B+	0	0.0
B	6	11.3
B-	4	7.5
C+	1	1.9
C	39	73.6
C-	3	5.7
Total	53	100.0

TABLE 39. ENGLISH COMPOSITION/WRITING: RESTRICTIONS FOR ACCEPTING COURSEWORK

	<i>n</i>	%
Time limit	13	46.4
Not web-based	4	14.3
Upper division	1	3.6
Lower/Introductory level	10	35.7
Full sequence	2	7.1
Lab required	0	0.0
Other restriction	0	0.0
Total	28	-

Note: Percentages may sum to more than 100% because programs could select multiple restrictions.

Genetics

27.8% ($n = 65$) of responding programs required students to take genetics before entering the graduate, professional phase of the program.

TABLE 40. GENETICS: REASONS COURSE IS REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	%
Foundation for program course(s)	65	100.0
Substitute for course(s) not included in the program curriculum	0	0.0
Institutional requirement	0	0.0
State requirement	0	0.0
Other reason	0	0.0
Total	65	-

Note: Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 41. GENETICS: MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR COURSE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Semester hours	58	2.0-4.0	3.1	0.4	3.0

TABLE 42. GENETICS: MINIMUM GRADE REQUIRED FOR COURSE

	<i>n</i>	%
B+	0	0.0
B	9	16.7
B-	6	11.1
C+	2	3.7
C	33	61.1
C-	4	7.4
Total	54	100.0

TABLE 43. GENETICS: RESTRICTIONS FOR ACCEPTING COURSEWORK

	<i>n</i>	%
Time limit	26	63.4
Not web-based	8	19.5
Upper division	8	19.5
Lower/Introductory level	3	7.3
Full sequence	1	2.4
Lab required	3	7.3
Other restriction	3	7.3
Total	41	-

Note: Percentages may sum to more than 100% because programs could select multiple restrictions.

Medical Terminology

38.5% ($n = 90$) of responding programs required students to take medical terminology before entering the graduate, professional phase of the program.

TABLE 44. MEDICAL TERMINOLOGY: REASONS COURSE IS REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	%
Foundation for program course(s)	89	98.9
Substitute for course(s) not included in the program curriculum	5	5.6
Institutional requirement	2	2.2
State requirement	0	0.0
Other reason	1	1.1
Total	90	-

Note: Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 45. MEDICAL TERMINOLOGY: MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR COURSE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Semester hours	76	1.0-3.0	1.4	0.7	1.0

TABLE 46. MEDICAL TERMINOLOGY: MINIMUM GRADE REQUIRED FOR COURSE

	<i>n</i>	%
B+	1	1.5
B	9	13.4
B-	5	7.5
C+	1	1.5
C	46	68.7
C-	4	6.0
Total	67	100.0

TABLE 47. MEDICAL TERMINOLOGY: RESTRICTIONS FOR ACCEPTING COURSEWORK

	<i>n</i>	%
Time limit	26	66.7
Not web-based	1	2.6
Upper division	4	10.3
Lower/Introductory level	8	20.5
Full sequence	1	2.6
Lab required	0	0.0
Other restriction	2	5.1
Total	39	-

Note: Percentages may sum to more than 100% because programs could select multiple restrictions.

Physiology

83.3% ($n = 195$) of responding programs required students to take physiology before entering the graduate, professional phase of the program.

TABLE 48. PHYSIOLOGY: REASONS COURSE IS REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	%
Foundation for program course(s)	194	100.0
Substitute for course(s) not included in the program curriculum	3	1.5
Institutional requirement	6	3.1
State requirement	1	0.5
Other reason	0	0.0
Total	194	-

Note: Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 49. PHYSIOLOGY: MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR COURSE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Semester hours	176	3.0-8.0	3.8	1.1	4.0

TABLE 50. PHYSIOLOGY: MINIMUM GRADE REQUIRED FOR COURSE

	<i>n</i>	%
B+	2	1.3
B	26	17.3
B-	15	10.0
C+	2	1.3
C	98	65.3
C-	7	4.7
Total	150	100.0

TABLE 51. PHYSIOLOGY: RESTRICTIONS FOR ACCEPTING COURSEWORK

	<i>n</i>	%
Time limit	95	56.5
Not web-based	42	25.0
Upper division	27	16.1
Lower/Introductory level	11	6.5
Full sequence	35	20.8
Lab required	96	57.1
Other restriction	8	4.8
Total	168	-

Note: Percentages may sum to more than 100% because programs could select multiple restrictions.

Psychology (General)

60.7% ($n = 142$) of responding programs required students to take psychology (general) before entering the graduate, professional phase of the program.

TABLE 52. PSYCHOLOGY (GENERAL): REASONS COURSE IS REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	%
Foundation for program course(s)	137	97.2
Substitute for course(s) not included in the program curriculum	1	0.7
Institutional requirement	4	2.8
State requirement	1	0.7
Other reason	1	0.7
Total	141	-

Note: Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 53. PSYCHOLOGY (GENERAL): MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR COURSE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Semester hours	132	2.0-9.0	3.3	1.2	3.0

TABLE 54. PSYCHOLOGY (GENERAL): MINIMUM GRADE REQUIRED FOR COURSE

	<i>n</i>	%
B+	1	0.9
B	16	15.1
B-	9	8.5
C+	2	1.9
C	75	70.8
C-	3	2.8
Total	106	74.6

TABLE 55. PSYCHOLOGY (GENERAL): RESTRICTIONS FOR ACCEPTING COURSEWORK

	<i>n</i>	%
Time limit	39	54.2
Not web-based	9	12.5
Upper division	4	5.6
Lower/Introductory level	22	30.6
Full sequence	1	1.4
Lab required	1	1.4
Other restriction	2	2.8
Total	72	-

Note: Percentages may sum to more than 100% because programs could select multiple restrictions.

Statistics

74.4% ($n = 174$) of responding programs required students to take statistics before entering the graduate, professional phase of the program.

TABLE 56. STATISTICS: REASONS COURSE IS REQUIRED FOR ENTRY INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	%
Foundation for program course(s)	170	98.8
Substitute for course(s) not included in the program curriculum	1	0.6
Institutional requirement	6	3.5
State requirement	0	0.0
Other reason	1	0.6
Total	172	-

Note: Percentages may sum to more than 100% because programs could select multiple reasons.

TABLE 57. STATISTICS: MINIMUM NUMBER OF SEMESTER HOURS REQUIRED FOR COURSE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Semester hours	160	1.0-9.0	3.0	0.7	3.0

TABLE 58. STATISTICS: MINIMUM GRADE REQUIRED FOR COURSE

	<i>n</i>	%
B+	1	0.7
B	23	16.8
B-	10	7.3
C+	3	2.2
C	94	68.6
C-	6	4.4
Total	137	100.0

TABLE 59. STATISTICS: RESTRICTIONS FOR ACCEPTING COURSEWORK

	<i>n</i>	%
Time limit	55	61.1
Not web-based	13	14.4
Upper division	12	13.3
Lower/Introductory level	19	21.1
Full sequence	3	3.3
Lab required	1	1.1
Other restriction	4	4.4
Total	90	-

Note: Percentages may sum to more than 100% because programs could select multiple restrictions.

Required Minimum GPAs

From a list of different grade point average (GPA) categories, programs were asked to indicate the GPA categories for which a minimum was required. Programs' reports of "Other" GPAs were excluded from analysis. Subsequently, for each required GPA category, programs were asked to report the minimum GPA accepted for entry into the program and the reasons for the requirements.

TABLE 60. GPA CATEGORIES FOR WHICH A MINIMUM IS REQUIRED

	<i>n</i>	%
Overall undergraduate GPA	183	83.6
Science undergraduate GPA	121	55.3
Non-science undergraduate GPA	9	4.1
Biology, chemistry, and physics (BCP) GPA	10	4.6
Prerequisite GPA	72	32.9
No minimum GPAs required	12	5.5
Total	219	-

"No minimum GPAs required" was an exclusive response, meaning that, if a program selected this option, they could not then select other required GPA categories in addition. 5.5% of responding programs indicated that they did not have any minimum GPA requirements.

Note: Percentages may sum to more than 100% because programs could select multiple required GPAs.

TABLE 61. MINIMUM REQUIRED GPAs

	<i>n</i>	% reporting				
		Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>	
Overall undergraduate GPA	181	98.9	2.50-3.40	3.0	0.1	3.0
Science undergraduate GPA	119	98.3	2.75-3.40	3.0	0.1	3.0
Non-science undergraduate GPA	9	100.0	2.33-3.25	2.9	0.3	3.0
Biology, chemistry, and physics (BCP) GPA	10	100.0	2.75-3.25	3.0	0.1	3.0
Prerequisite GPA	71	98.6	2.00-3.50	2.9	0.3	3.0

Note: % reporting refers to the proportion of programs requiring each GPA that also reported the minimum GPA required.

TABLE 62. REASONS FOR REQUIRING GPAs

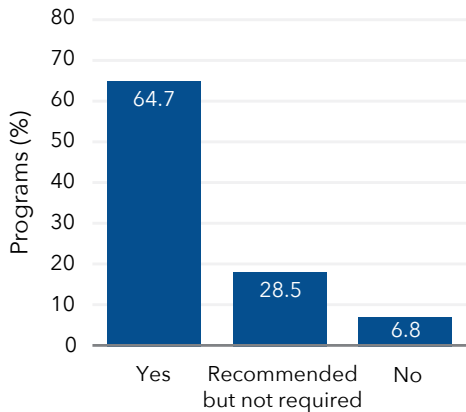
	<i>N</i>	% reporting	University or graduate school requirement		Shown to predict ability to complete the program		Narrow the applicant pool		Other reason	
			<i>n</i>	%	<i>n</i>	%	<i>n</i>	%	<i>n</i>	%
Overall undergraduate GPA	182	99.5	64	35.2	132	72.5	85	46.7	5	2.7
Science undergraduate GPA	119	98.3	21	17.6	98	82.4	54	45.4	5	4.2
Non-science undergraduate GPA	9	100.0	3	33.3	5	55.6	3	33.3	0	0.0
Biology, chemistry, and physics (BCP) GPA	10	100.0	1	10.0	9	90.0	4	40.0	1	10.0
Prerequisite GPA	72	100.0	13	18.1	54	75.0	33	45.8	6	8.3

Note: N refers to the total number of programs that reported reasons for requiring a particular type of GPA. % reporting refers to the proportion of programs requiring each GPA that also reported their reasons for the requirement. n refers to the number of programs that reported a particular reason for each type of GPA. Percentages may sum to more than 100% because programs could select multiple reasons.

Required Health Care Experience

Programs that required students to have health care experience were asked to indicate the types and minimum hours of health care experiences required.

FIGURE 5. HEALTH CARE EXPERIENCE REQUIREMENTS



Programs were asked whether they required prospective students to have health care experience prior to entry into the graduate, professional phase of the program.

Note: *n* = 235 responding programs

TABLE 63. TYPES OF HEALTH CARE EXPERIENCE REQUIREMENTS

	N	Required		Preferred		Not required	
		n	%	n	%	n	%
Direct patient care (paid)	152	64	42.1	71	46.7	17	11.2
Direct patient care (volunteer)	145	2	1.4	93	64.1	50	34.5
Other health care (paid)	144	6	4.2	35	24.3	103	71.5
Other health care (volunteer)	146	5	3.4	45	30.8	96	65.8
Shadowing a PA	148	43	29.1	75	50.7	30	20.3
Shadowing another type of health care provider	143	5	3.5	35	24.5	103	72.0
Clinical and/or non-clinical research	144	0	0.0	15	10.4	129	89.6
Health care volunteering/community service	149	56	37.6	62	41.6	31	20.8
Non-health volunteering/community service	144	6	4.2	64	44.4	74	51.4

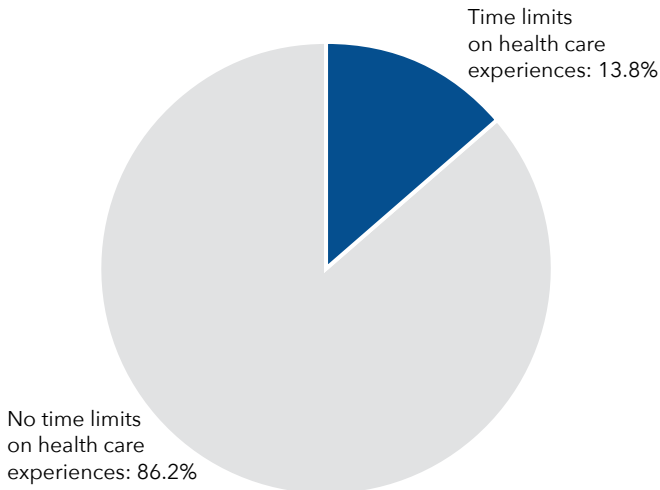
Note: *N* refers to the total number of programs that reported the requirement status of each health care experience. *n* refers to the number of programs that reported a particular requirement status for each health care experience.

TABLE 64. MINIMUM NUMBER OF REQUIRED HEALTH CARE EXPERIENCE HOURS

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Direct patient care (paid)	57	200.0-5,000.0	889.8	773.9	500.0
Direct patient care (volunteer)	42	80.0-2,000.0	506.0	420.9	500.0
Other health care (volunteer)	5	60.0-300.0	192.0	85.6	200.0
Shadowing a PA	34	1.0-100.0	24.9	18.8	20.0

Note: Types of health care experiences for which fewer than 5 programs reported minimum required hours were excluded from this table. Zeroes were excluded prior to analysis.

FIGURE 6. TIME LIMITS ON HEALTH CARE EXPERIENCES



Note: $n = 152$ responding programs

Of the 152 programs that required students to have health care experience, 13.8% ($n = 21$) required that health care experiences be completed within a certain time limit. On average, these programs required that health care experiences occur within the past 5.1 years (range = 1.0–10.0 years, $SD = 2.8$, $Mdn = 5.0$).

Required Standardized Tests

This section refers to the following standardized tests using their abbreviations.

- GRE: Graduate Record Examinations
- IELTS: International English Language Testing System
- MCAT: Medical College Admission Test
- TOEFL: Test of English as a Foreign Language

TABLE 65. STANDARDIZED TESTS REQUIRED FOR PRE-PROFESSIONAL ADMISSIONS

	<i>n</i>	%
SAT	24	82.8
ACT	21	72.4
TOEFL Internet-based Test (iBT)	12	41.4
TOEFL Paper-based Test (pBT)	9	31.0
IELTS	5	17.2
Total	29	-

Note: Percentages may sum to more than 100% because programs could select multiple required standardized tests.

Programs with an undergraduate, pre-professional track ($n = 39$, 16.6%) were asked to indicate which standardized tests were required for entry. 9 of these programs (23.1%) reported having no required standardized tests for undergraduate, pre-professional admissions.

TABLE 66. MINIMUM SCORES FOR STANDARDIZED TESTS REQUIRED FOR PRE-PROFESSIONAL ADMISSIONS

	Possible Range	<i>n</i>	Observed Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
SAT	400–1600	19	830.0–1400.0	1161.6	133.4	1170.0
ACT	1–36	17	17.0–27.0	24.7	2.7	25.0
TOEFL Internet-based Test (iBT)	0–120	11	79.0–114.0	90.9	13.1	83.0

Note: TOEFL pBT and IELTS were excluded due to low responses. “Possible Range” refers to the full range of possible scores on each standardized test. “Observed Range” refers to the observed range of reported minimum test scores for each standardized test. Zeroes and reported scores that fell outside of the possible ranges for each exam were excluded prior to analysis.

TABLE 67. STANDARDIZED TESTS REQUIRED FOR GRADUATE, PROFESSIONAL PHASE ADMISSIONS

	<i>n</i>	%
TOEFL Internet-based Test (iBT)	121	52.8
GRE: Total (will not accept MCAT instead)	87	38.0
GRE: Verbal reasoning	86	37.6
GRE: Quantitative reasoning	86	37.6
GRE: Analytic writing	73	31.9
TOEFL Paper-based Test (pBT)	63	27.5
IELTS	24	10.5
GRE: Total (will accept MCAT instead)	18	7.9
ACT	3	1.3
SAT	3	1.3
Other	11	4.8
None	23	10.0
Total	229	-

Note: Percentages may sum to more than 100% because programs could select multiple required standardized tests.

TABLE 68. MINIMUM SCORES FOR STANDARDIZED TESTS REQUIRED FOR GRADUATE, PROFESSIONAL PHASE ADMISSIONS

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
TOEFL Internet-based Test (iBT)	96	1.0-550.0	100.7	71.3	90.0
GRE: Total (will not accept MCAT instead)	24	280.0-302.0	296.1	5.9	300.0
GRE: Verbal reasoning	22	130.0-155.0	146.2	5.9	147.0
GRE: Quantitative reasoning	22	130.0-155.0	145.3	6.0	145.5
GRE: Analytic writing	20	1.0-4.2	3.4	0.7	3.5
TOEFL Paper-based Test (pBT)	32	550.0-650.0	570.2	28.8	550.0
IELTS	19	6.0-8.0	6.7	0.5	7.0

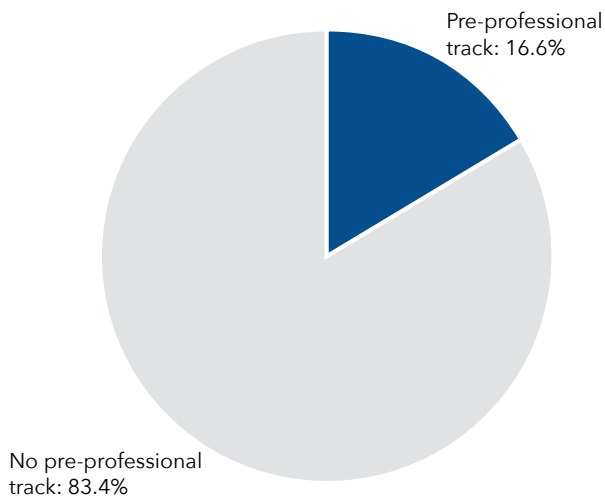
Note: ACT, SAT, and total GRE scores among programs that accepted the MCAT instead were excluded due to low responses. Zeroes and reported scores that fell outside of the possible ranges for each exam were excluded prior to analysis.

SECTION 3: APPLICATIONS AND ADMISSIONS

Types of Students Admitted

Programs reported on the types of students admitted and whether they had special preferences or pathways for specific groups of students.

FIGURE 7. PROGRAMS WITH A PRE-PROFESSIONAL TRACK



No pre-professional track: 83.4%

Note: n = 235 responding programs

Among programs that had pre-professional tracks, 5 out of 38 responding programs (13.2%) reported that they only admitted students accepted as undergraduates into the pre-professional track into the graduate, professional track.

TABLE 69. PRE-PROFESSIONAL STUDENTS ADMITTED INTO THE GRADUATE, PROFESSIONAL PHASE

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Number of pre-professional students admitted to graduate, professional phase	39	0-67	20.4	18.5	15.0
Number of pre-professional students not admitted to graduate, professional phase	36	0-57	6.6	11.6	1.0
Total size of pre-professional cohort	39	1-72	26.5	21.9	20.0

Among the 39 programs with pre-professional tracks, the average percentage of undergraduate, pre-professional students admitted to the graduate, professional phase was 74.5% (SD = 27.8, Mdn = 82.5).

FIGURE 8. PROGRAMS THAT ACCEPT TRANSFER STUDENTS FROM OTHER PA PROGRAMS

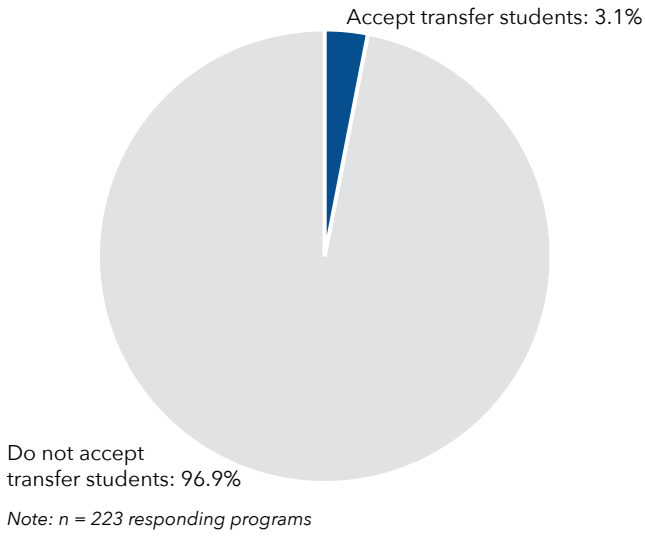


FIGURE 9. PROGRAMS THAT ACCEPT INTERNATIONAL APPLICANTS

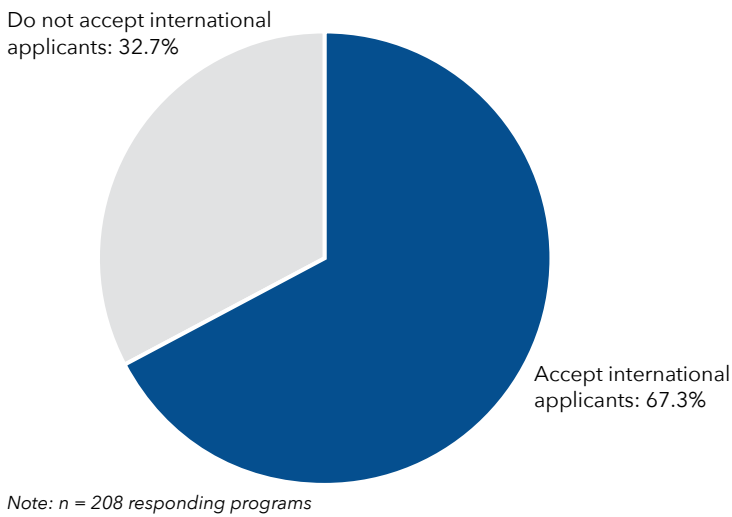


FIGURE 10. PROGRAMS WITH PATHWAYS OR SUPPORT SYSTEMS FOR VETERANS

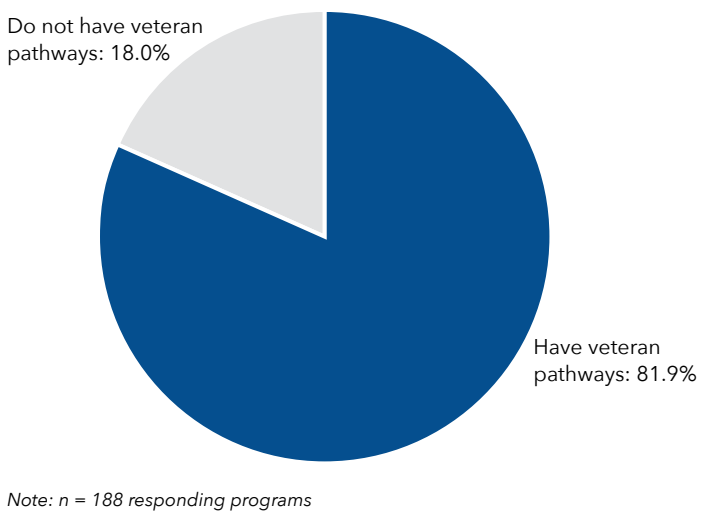
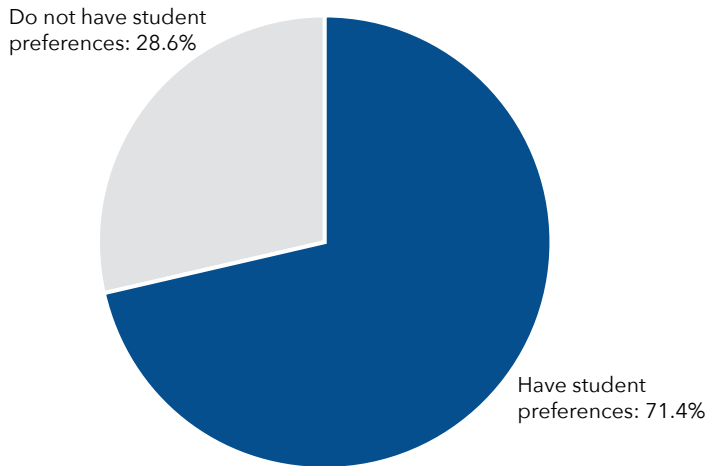


TABLE 70. AVAILABLE PATHWAYS OR SUPPORT SYSTEMS FOR VETERANS

	<i>n</i>	%
Yellow Ribbon program: Institutional participation in the Yellow Ribbon Schools program, a university-funded scholarship program for veterans	81	52.6
Special admission consideration: Processes that recognize military veterans	70	45.5
Veteran faculty: Faculty members who have veteran status	66	42.9
Clinical partnerships: Partnerships with veteran organizations for rotations	57	37.0
Veteran scholarships: Scholarship or financial assistance like reduced or in-state tuition	35	22.7
SOC member: Institutional participation in the Servicemembers Opportunity Colleges (SOC) programs, a consortium of colleges that recognizes the unique needs of veterans in achieving their educational goals. Many of these institutions offer special benefits such as tuition reduction or credit for experiential learning.	12	7.8
Total	154	-

Note: Percentages may sum to more than 100% because programs could select multiple types of pathways or support systems offered to veterans. This table only includes those programs that reported having a veteran pathway or support system.

FIGURE 11. PROGRAMS WITH PREFERENCES FOR SPECIFIC STUDENT CHARACTERISTICS



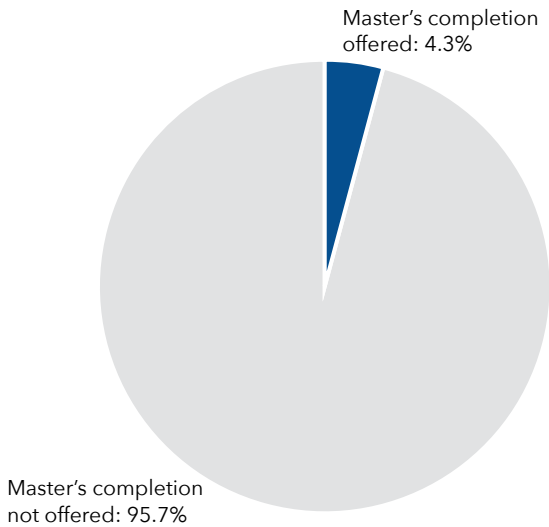
Note: n = 231 responding programs

TABLE 71. PREFERENCES OR SPECIAL CONSIDERATION FOR SPECIFIC STUDENT CHARACTERISTICS

	<i>n</i>	%
Veteran preference	76	49.0
From an underserved area	57	36.8
Underrepresented minorities	50	32.3
Alumnus/Legacy preference	46	29.7
Economically disadvantaged	44	28.4
State residents	43	27.7
Deferrals from previous year	38	24.5
First-generation students	37	23.9
Articulation agreement with other colleges/ universities	32	20.6
Environmentally/Educationally disadvantaged	32	20.6
Rural	31	20.0
Local area students	30	19.4
Other	38	24.5
Total	155	-

Note: Percentages may sum to more than 100% because programs could select multiple types of preferences or special considerations. This table excludes those programs that did not report having preferences or special considerations for specific student characteristics. First-generation was not defined in the survey but typically refers to students who are the first generation in their family to attend college.

FIGURE 12. MASTER'S COMPLETION FOR CURRENTLY PRACTICING PAs

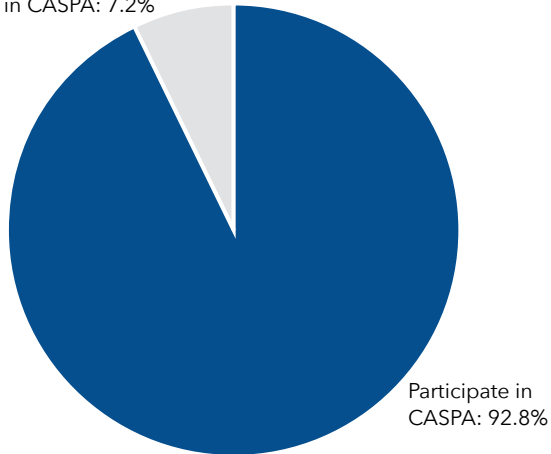


Note: n = 232 responding programs

Application Materials

FIGURE 13. CASPA PARTICIPATION

Do not participate
in CASPA: 7.2%



Note: $n = 236$ responding programs

TABLE 72. NARRATIVE OR PERSONAL STATEMENT REQUIREMENT

	<i>n</i>	%
Yes, a narrative/personal statement is required		
Require CASPA's narrative/personal statement	138	59.7
Require both CASPA's narrative/personal statement and a supplemental statement	76	32.9
Do not use CASPA but do require a narrative/personal statement	10	4.3
Subtotal	224	97.0
No, a narrative/personal statement is not required	7	3.0
Total	231	100.0

TABLE 73. MINIMUM NUMBER OF REQUIRED WRITTEN REFERENCES

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Minimum required references	229	1-4	2.8	0.4	3.0

97.4% ($n = 229$) of responding programs required a minimum number of written references from prospective students.

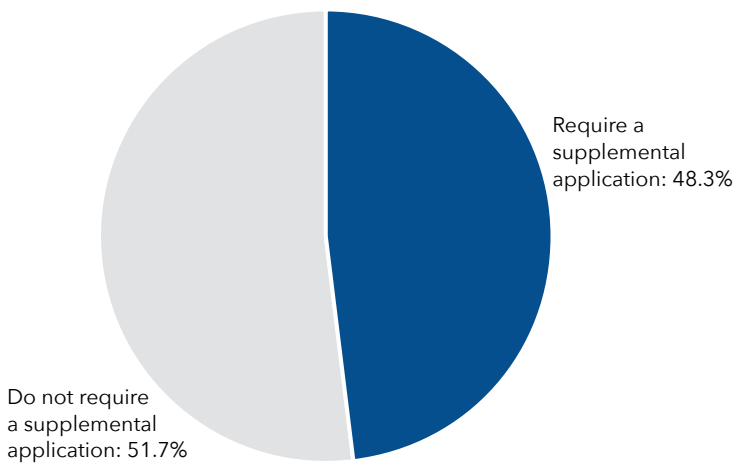
TABLE 74. TYPES OF REFERENCES REQUIRED

	n	%
PA	74	63.8
Academic reference (e.g., teacher, professor)	54	46.6
Physician	49	42.2
Employer/Supervisor	47	40.5
Other health care provider	39	33.6
Other	28	24.1
Total	116	-

An additional 106 programs (47.7% of all 222 responding programs) indicated that they had no restrictions on the types of references required.

Note: "Other" write-ins that indicated a preference for type of reference but not a requirement were excluded. Percentages will sum to more than 100% because programs could select multiple types of required references.

FIGURE 14. SUPPLEMENTAL APPLICATION REQUIRED



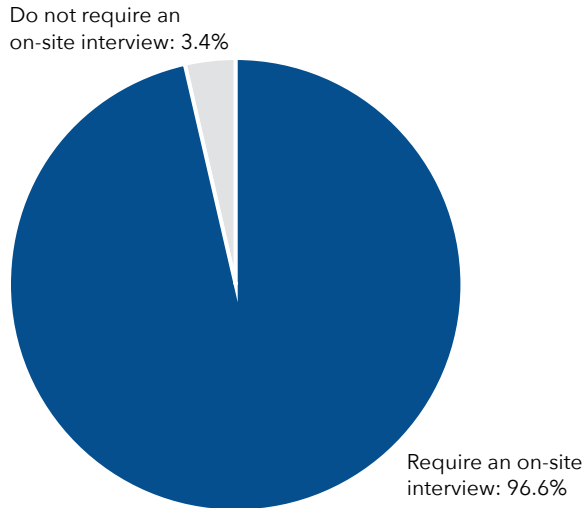
Note: n = 236 responding programs

TABLE 75. SUPPLEMENTAL APPLICATION FEE (\$)

	n	Range	M	SD	P10	P25	P50 (Mdn)	P75	P90
Fee	99	20.0-300.0	58.7	32.6	25.0	47.5	50.0	67.5	95.0

Note: Zeroes were excluded prior to analysis.

FIGURE 15. ON-SITE INTERVIEW REQUIRED



Note: n = 234 responding programs

TABLE 76. REASONS FOR REQUIRING AN ON-SITE INTERVIEW

	n	%
Evaluate applicants' interpersonal and communication skills	224	99.1
Evaluate professionalism and behavioral issues	213	94.2
Assess whether applicants' goals align with the program's goals/mission	188	83.2
Help applicants in their decision to choose a program	180	79.6
Evaluate applicants' dedication to the PA career	174	77.0
Evaluate applicants' ability to work in teams	143	63.3
Other	10	4.4
Total	226	-

Note: Percentages will sum to more than 100% because programs could select more than one reason for requiring an on-site interview.

TABLE 77. ON-SITE INTERVIEW FORMAT

	n	%
Individual	152	67.6
Group/Team	138	61.3
Multiple, mini-individual interviews	64	28.4
Multiple, mini-group interviews	17	7.6
Other	8	3.6
Total	225	-

Note: Percentages will sum to more than 100% because programs could select more than one format for their on-site interviews.

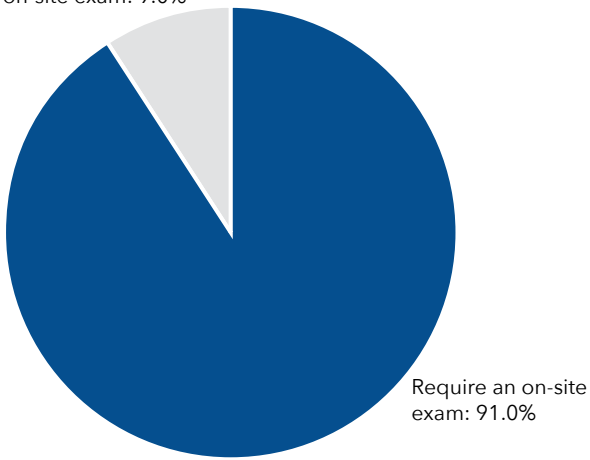
TABLE 78. PARTICIPANTS IN PROGRAMS' ON-SITE INTERVIEW PROCESS

	<i>n</i>	%
PA program faculty	225	99.6
Graduated students (alumni)	120	53.1
Current students	115	50.9
PA program staff	113	50.0
Preceptors	110	48.7
Faculty from outside the PA program	109	48.2
University administration	59	26.1
Community members	52	23.0
Other		
Admissions advisers/staff	5	2.2
All other	11	4.9
Total	226	-

Note: Percentages will sum to more than 100% because programs could indicate more than one participant in their on-site interview process. Programs were not asked about "admissions advisers/staff"; this category was created based on programs' recoded "other" write-in responses.

FIGURE 16. ON-SITE EXAMS REQUIRED

Do not require an on-site exam: 9.0%



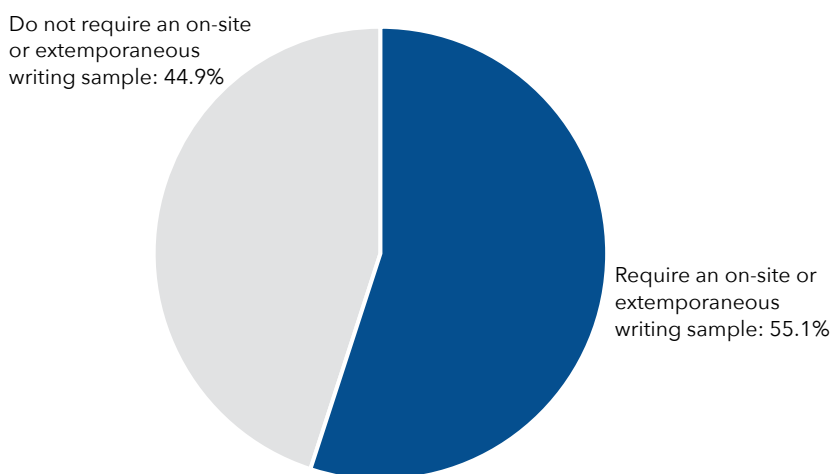
Note: n = 223 responding programs

TABLE 79. TYPES OF ON-SITE EXAMS REQUIRED

	<i>n</i>	%
Basic science	8	40.0
Math skills	2	10.0
Other		
Medical terminology	6	30.0
Writing/Composition	4	20.0
All other	2	10.0
Total	20	-

Note: Percentages will sum to more than 100% because programs could indicate more than one required on-site exam. Programs were not asked about "medical terminology" or "writing/composition" exams; these categories were created based on programs' recoded "other" write-in responses.

FIGURE 17. ON-SITE OR EXTEMPORANEOUS WRITING SAMPLE REQUIRED



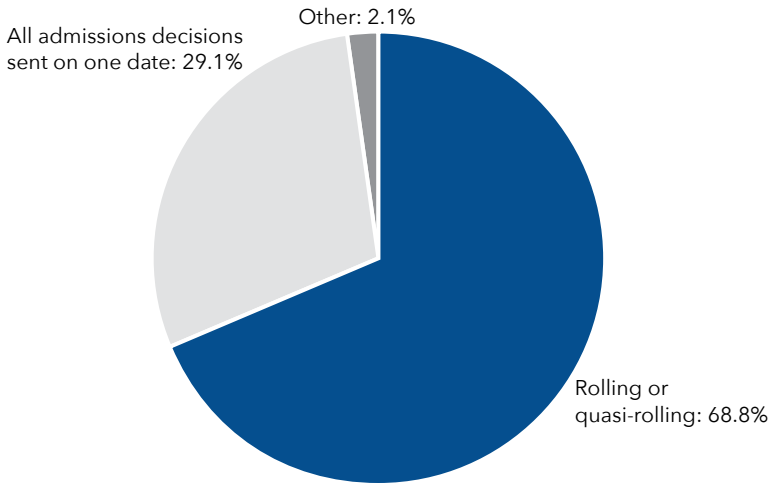
Note: n = 225 responding programs

TABLE 80. USES FOR ON-SITE OR EXTEMPORANEOUS WRITING SAMPLE

	<i>n</i>	%
To evaluate communication skills	89	71.8
Scored as part of review of candidate	83	66.9
Comparison between on-the-spot writing and submitted writing sample	45	36.3
Not scored, but considered as part of review of candidate	34	27.4
Other	4	3.2
Total	124	-

Note: Percentages will sum to more than 100% because programs could indicate more than one use for prospective students' writing samples.

FIGURE 18. SCHEDULE OF ADMISSIONS DECISIONS



Note: *n* = 234 responding programs.
 "Other" responses were recoded into existing categories when possible.

TABLE 81. APPLICANTS, ACCEPTANCES, AND MATRICULANTS, 2015-2018

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	P10	P25	P50 (<i>Mdn</i>)	P75	P90
Applications received									
2015-2016 academic year	183	30-3,005	985.1	634.6	296.8	487.0	841.0	1,400.0	1,898.8
2016-2017 academic year	201	76-3,452	1,028.4	716.3	297.0	451.0	850.0	1,400.0	2,100.0
2017-2018 academic year	218	33-4,786	1,078.6	791.0	291.9	478.5	871.0	1,514.2	2,160.3
Admission acceptance letters sent									
2015-2016 academic year	174	2-200	66.3	36.9	32.0	44.0	55.5	77.5	113.4
2016-2017 academic year	195	1-200	66.2	35.0	30.0	42.0	58.0	80.0	113.0
2017-2018 academic year	210	6-210	65.5	35.8	33.0	41.0	57.0	75.8	113.1
Matriculants									
2015-2016 academic year	191	2-185	46.4	22.9	25.0	30.0	40.0	55.0	75.0
2016-2017 academic year	207	1-187	46.6	22.6	25.0	30.0	40.0	55.0	75.0
2017-2018 academic year	218	9-208	46.9	23.1	25.7	30.0	40.5	56.0	75.0

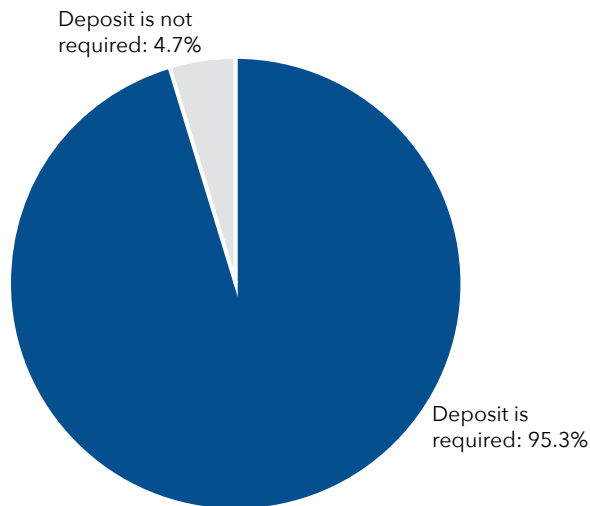
Note: All data were self-reported by programs. Zeroes were excluded prior to analysis.

TABLE 82. ACCEPTANCE AND MATRICULATION RATES, 2015–2018 (%)

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	P10	P25	P50 (<i>Mdn</i>)	P75	P90
Acceptance rates									
2015–2016 academic year	172	0.2–100.0	10.2	12.2	3.2	4.5	7.1	11.0	19.6
2016–2017 academic year	193	0.3–98.7	9.6	9.5	2.8	4.7	6.9	11.5	18.6
2017–2018 academic year	208	0.5–96.2	9.7	11.0	2.6	4.0	6.6	11.6	19.4
Matriculation rates based on applications received									
2015–2016 academic year	183	0.2–100.0	7.7	11.0	2.4	3.3	4.9	8.9	13.3
2016–2017 academic year	201	0.3–98.7	7.0	8.1	2.3	3.1	5.0	9.0	12.4
2017–2018 academic year	214	0.6–96.2	7.4	9.8	2.2	3.0	4.8	8.5	13.9
Matriculation rates based on acceptance letters sent									
2015–2016 academic year	174	43.6–100.0	75.4	16.1	53.6	63.5	74.5	89.3	100.0
2016–2017 academic year	195	30.8–100.0	74.7	15.6	55.7	63.0	73.2	85.7	100.0
2017–2018 academic year	208	30.8–100.0	75.5	15.7	53.9	64.5	76.7	86.7	100.0

Acceptance rates were calculated by dividing programs’ self-reported number of admission acceptance letters sent by the number of applications received for each academic year. **Matriculation rates based on applications received** were calculated by dividing programs’ self-reported number of matriculants by the number of applications received for each academic year. **Matriculation rates based on acceptance letters sent** were calculated by dividing programs’ self-reported number of matriculants by the number of admission acceptance letters sent for each academic year.

FIGURE 19. DEPOSIT REQUIRED TO SECURE SEAT



Note: *n* = 236 responding programs

TABLE 83. AMOUNT OF PROGRAM DEPOSIT REQUIRED TO SECURE SEAT (\$)

	<i>n</i>	Range	<i>M</i>	<i>SD</i>	P10	P25	P50 (<i>Mdn</i>)	P75	P90
Deposit amount	222	50–2,000	760	395	255	500	750	1,000	1,500

TABLE 84. REFUNDABLE DEPOSITS

	<i>n</i>	%
No	189	84.4
Yes, for emergencies only	12	5.4
Yes, fully refundable	8	3.6
Yes, partially refundable	5	2.2
Other	10	4.5
Total	224	100.0

SECTION 4. CURRICULAR DESIGN

TABLE 85. PROGRAM MISSION

	<i>n</i>	%
Primary care	160	69.3
Underserved	98	42.4
Generalist	76	32.9
Rural	51	22.1
Specialist	2	0.9
Other	17	7.4
No overall focus	10	4.3
Total	231	-

Note: Percentages will sum to more than 100% because programs could select multiple focuses of their mission.

Programs were asked to describe their curriculum's overall mission, based on their mission statements.

TABLE 86. CURRICULAR FOCUS

	<i>n</i>	%
Organ-based/Systems-based learning	166	74.8
Collaborative or team-based learning	69	31.1
Hybrid of traditional or case-based learning	67	30.2
Early clinical exposure	65	29.3
Problem-based learning	64	28.8
Case-based learning	62	27.9
Asynchronous learning	19	8.6
Other	10	4.5
No curricular focus	28	12.6
Total	222	-

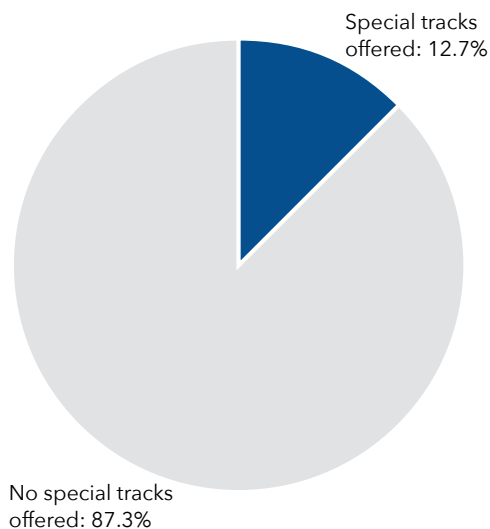
Note: Percentages will sum to more than 100% because programs could select multiple curricular focuses.

TABLE 87. PEDAGOGICAL APPROACH

	<i>n</i>	%
Organ-based/Systems-based learning	154	69.7
Collaborative or team-based learning	96	43.4
Case-based learning	91	41.2
Hybrid of traditional or case-based learning	80	36.2
Problem-based learning	79	35.7
Early clinical exposure	69	31.2
Asynchronous learning	27	12.2
Other	11	5.0
No specific pedagogical approach	27	12.2
Total	221	-

Note: Percentages will sum to more than 100% because programs could select multiple pedagogical approaches.

FIGURE 20. SPECIAL TRACKS OFFERED



No special tracks offered: 87.3%

Note: n = 229 responding programs

Of 26 programs that provided specifics regarding special tracks offered, 8 (30.8%) reported having a rural track and 7 (26.9%) reported having an underserved track. Programs could describe multiple special tracks.

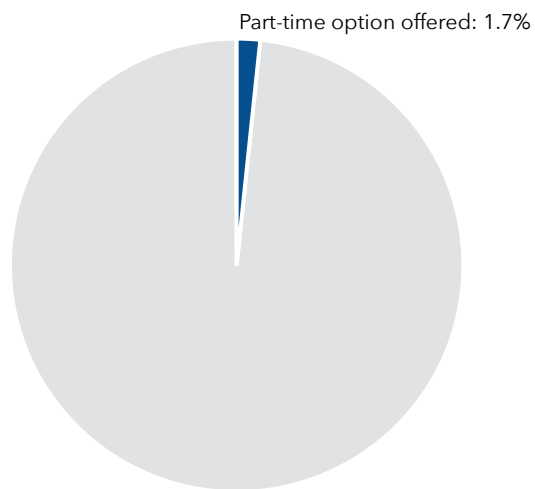
TABLE 88. FORMULA FOR CONVERTING CLOCK HOURS TO CREDIT HOURS: LECTURE INSTRUCTION

	<i>n</i>	%
1 credit = 15 clock/contact hours	108	47.4
1 credit = 16 clock/contact hours	21	9.2
1 credit = 10 clock/contact hours	17	7.5
1 credit = 14 clock/contact hours	14	6.1
1 credit = 12 clock/contact hours	13	5.7
Other formula	17	7.5
No formula	38	16.7
Total	228	100.0

TABLE 89. FORMULA FOR CONVERTING CLOCK HOURS TO CREDIT HOURS: LABORATORY INSTRUCTION

	<i>n</i>	%
1 credit = 30 clock/contact hours	44	19.4
1 credit = 15 clock/contact hours	28	12.3
1 credit = 45 clock/contact hours	28	12.3
1 credit = 20 clock/contact hours	13	5.7
1 credit = 8 clock/contact hours	8	3.5
1 credit = 32 clock/contact hours	7	3.1
1 credit = 24 clock/contact hours	5	2.2
1 credit = 12 clock/contact hours	4	1.8
1 credit = 16 clock/contact hours	3	1.3
1 credit = 36 clock/contact hours	3	1.3
1 credit = 25 clock/contact hours	1	0.4
Other formula	21	9.3
No formula	62	27.3
Total	227	100.0

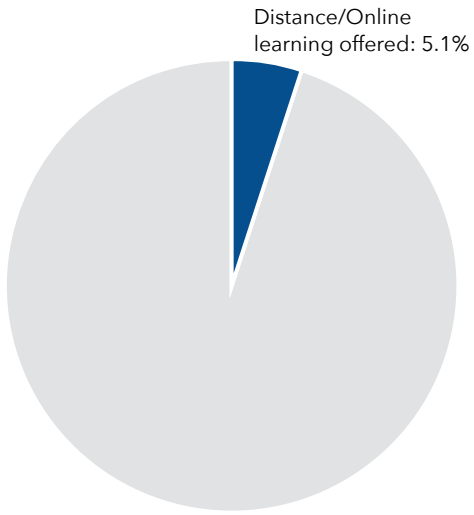
FIGURE 21. PART-TIME OPTION OFFERED



No part-time option offered: 98.3%

Note: *n* = 235 responding programs

FIGURE 22. DISTANCE OR ONLINE LEARNING OPPORTUNITIES OFFERED



No distance/online learning offered: 94.9%

Note: n = 234 responding programs