

Evidence 2023.4.1.2: PCMAS Results

Evidence Overview

The evidence presented pertains to the UPRM Teacher Preparation Program and its dedication to preparing teachers who positively impact K-12 student learning. The program assesses its effectiveness by comparing annual data from the Teaching Certification Tests, known as PCMAS in Spanish, which are mandated by the Department of Education. This data is obtained from the College Board Report and is compared to data from previous years.

The primary purpose of this data analysis is to provide an overview of the program's graduates and the quality of preparation they receive within the UPRM Teacher Preparation Program. Successful completion of this program is a requirement for employment by the Department of Education of Puerto Rico to obtain teacher certification (as referenced in Evidence 2023.4.1.2).

The key finding from the data analysis is that graduates of the UPRM Teacher Preparation Program consistently achieve higher scores on the Teaching Certification Tests compared to the average population. This information demonstrates the program's success in producing well-prepared teachers who excel in the required certification assessments, suggesting that the program has a positive impact on the growth of K-12 student learning.

CAEP Standards Alignment

Initial

Advanced

4.1

The Evidence

This evidence provided clearly establishes that our graduates have continuously demonstrated higher scores than the average population.

PCMAS General

The individual results report of the PCMAS General offers the score according to the level: Elementary Level Secondary Level. The score, which expresses performance on the test, is reported on a scale that ranges from a minimum score of 40 points to a maximum of 160. Table 5 below summarizes the results obtained by the population that was examined in March 2021. In the first column of the table the score appears on a scale in intervals of 10 points and then the frequency (number of examinees) in each interval is offered.

Table 5
Distribution of scores of candidates examined in the PCMAS General and level

Scale score	Puerto Rico			UPRM		
	Elementary	Secondary	Total	Elementary	Secondary	Total
160	0	0	0	0	0	0
150-159	0	0	0	0	0	0
140-149	3	3	6	0	0	0
130-139	20	24	44	0	4	4
120-129	88	118	206	0	14	14
110-119	201	158	359	0	14	14
100-109	257	146	403	0	14	14
90-99	207	73	280	0	6	6
80-89	108	34	142	0	2	2
70-79	21	4	25	0	0	0
60-69	2	0	2	0	0	0
50-59	0	0	0	0	0	0
40-49	0	0	0	0	0	0
Average	104	110	106	0	113	113
Median	104	111	107	0	112	112
Standard Deviation	13	13	13	0	12	12
N	907	560	1467	0	54	54

Descriptive statistics of the General PCMAS by content areas

Table 6 presents the descriptive statistics by content areas of the PCMAS General for the last administration in March 2021. The content areas are presented on a scale of 20 to 80 points, with a theoretical average of 50 points and a theoretical standard deviation of 10 points.

Table 6
Descriptive statistics by content areas in the PCMAS General

PCMAS Genera content areas		Average	Median	DE	Minimum	Maximum	N
Puerto Rico	Social Sciences/Humanities	50	48	10	20	80	1,467
	Science and Mathematics	53	53	10	20	80	1,467
	English	51	52	12	20	80	1,467
	Spanish	49	50	10	20	79	1,467
	Methodology/Evaluation	50	50	10	20	80	1,467
	Sociological and Philosophical Foundations	53	51	10	20	80	1,467
	Human Development and Psychology	50	50	10	20	74	1,467
	Pedagogical Situation	53	54	8	31	76	1,467
UPRM	Social Sciences/Humanities	53	56	9	29	67	54
	Science and Mathematics	62	61	8	44	80	54
	English	55	60	11	29	67	54
	Spanish	52	53	10	35	75	54
	Methodology/Evaluation	54	54	9	31	76	54
	Sociological and Philosophical Foundations	55	56	10	28	80	54
	Human Development and Psychology	51	50	9	25	74	54
	Pedagogical Situation	55	55	7	42	69	54

Academic and socioeconomic profile of applicants to take theTeacher Certification Test (PCMAS)

When filling out the application to take the Teacher Certification Test, candidates complete a questionnaire that is intended to gather academic and socioeconomic information. Table 7 presents a summary of the frequency and percentage of the candidates' responses to the questionnaire questions.

Table 7
Summary of frequency and percentage of responses to questionnaire questions completed by candidates when applying for the PCMAS

Questions

1. Indicate your immediate family's monthly income.

(A) Less than \$250 (3,000 or less annually)

(B) Between \$251 and \$500 (approximately 3,001 to \$6,000 annually)

(C) Between \$501 and \$750 (approximately \$6,001 to \$9,000 annually)

(D) Between \$751 and \$1,083 (approximately \$9,001 to \$13,000 annually)

(E) Between \$1,084 and \$1,666 (approximately \$13,001 to \$20,000 annually)

(F) Between \$1,667 and \$2,500 (approximately \$20,001 to \$30,000 annually)

(G) More than \$2,501 (more than approximately 30,001 annually)
2. Indicate if you have previously taken any of the following Teacher Certification Tests. You can indicate more than one

(A) Fundamental Knowledge and Communication Skills

(B) Professional Skills Elementary Level

(C) Professional Skills Secondary Level

(D) PCMAS General

(E) Spanish

(F) English

(G) Math

(H) Sciences

(I) Social Studies

(J) I have not examined

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
197	13	6	11
134	9	3	5
114	8	2	4
176	12	7	12
308	21	11	19
270	18	14	25
294	20	14	25

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
20	1	0	0
47	3	0	0
12	1	1	2
123	8	2	3
7	0	1	2
17	1	1	2
9	1	1	2
4	0	0	0
7	0	0	0
1,326	84	84	90

3. Indicate the highest academic preparation you have completed or will complete at the end of the current academic year.

- (A) Baccalaureate
- (B) Baccalaureate +30 credits
- (C) Master's Degree
- (D) Master's Degree +30 credits
- (E) Doctoral or Postdoctoral

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
1,131	76	27	47
229	15	27	47
93	6	2	4
36	2	1	2
4	0	0	0

4. Select the academic average that you estimate you have accumulated by completing the highest academic preparation indicated above.

- (A) From 2.00 to 2.49
- (B) From 2.50 to 2.99
- (C) From 3.00 to 3.49
- (D) From 3.50 to 4.00

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
10	1	0	0
66	4	4	7
613	41	27	47
804	54	26	46

5. From the following alternatives, select the type of school, college or academy in Puerto Rico where you completed all or most of your high school studies. If you did not study in Puerto Rico, mark E.

- (A) Public school, general academic program
- (B) Public school, trade or vocational program
- (C) Private school with predominant teaching in Spanish
- (D) Private school with predominant teaching in English
- (E) Other

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
768	51	33	58
255	17	12	21
294	20	7	12
118	8	4	7
58	4	1	2

6. How many years of study have you completed in the United States of America or in another English-speaking country?

- (A) none
- (B) From one to three years
- (C) From four to six years
- (D) From seven to nine years
- (E) From ten to twelve years
- (F) More than twelve years

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
1,264	85	45	79
84	6	4	7
44	3	2	4
20	1	1	2
11	1	0	0
70	5	5	9

7. How proficient are you in the English language?

- (A) Much
- (B) Quite
- (C) Regular
- (D) Little
- (E) None

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
450	30	22	39
338	23	17	30
425	28	13	23
241	16	4	7
39	3	1	2

8. How many years, if any, have passed between your last year of study and the time you took this exam.

- (A) None
- (B) Less than a year
- (C) From one to two years
- (D) From three to five years
- (E) More than five years

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
539	36	34	60
466	31	10	18
294	20	11	19
92	6	1	2
102	7	1	2

9. Indicate the years of experience you have as a teacher.

- (A) None
- (B) Less than one year
- (C) From one to two years
- (D) From three to five years
- (E) More than five years

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
560	38	36	63
406	27	14	25
213	14	4	7
145	10	1	2
169	11	2	4

10. During your university studies, how many hours per week did you work while studying?

- (A) None
- (B) From 1 to 6 hours
- (C) From 7 to 12 hours
- (D) From 13 to 20 hours
- (E) From 21 to 30 hours
- (F) More than 30 hours

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
326	22	22	39
196	13	7	12
219	15	7	12
240	16	15	26
246	16	3	5
266	18	3	5

11. Indicate the college credits you have completed in the Faculty or Department of Education.

- (A) None
- (B) From 1 to 15
- (C) From 16 to 30
- (D) From 31 to 45
- (E) From 46 to 60
- (F) More than 60

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
38	3	0	0
21	1	6	11
125	8	28	49
163	11	15	26
183	12	3	5
963	65	5	9

12. Indicate the university credits that you have completed in a College or a Department OTHER than Education (Science, General Studies, Humanities, etc.)

- (A) None
- (B) From 1 to 15
- (C) From 16 to 30
- (D) From 31 to 45
- (E) From 46 to 60
- (F) More than 60

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
230	15	1	2
250	17	2	4
252	17	0	0
176	12	3	5
188	13	3	5
397	27	48	84

13. Indicate the time it will take to complete the bachelor's degree in Education.

- (A) Less than 4 years
- (B) 4 years
- (C) 5 years
- (D) 6 years or more

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
421	28	33	58
236	16	6	11
600	40	11	19
236	16	7	12

14. How do you consider your university preparation in those courses you took outside the Faculty, Department or Education or Pedagogy Program?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable
- (E) Inadequate

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
754	51	38	67
407	27	15	26
303	20	4	7
26	2	0	0
3	0	0	0

15. What competence and understanding have you developed in the level or subject you propose to teach?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable
- (E) Inadequate

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
998	67	46	81
384	26	10	18
107	7	1	2
4	0	0	0
0	0	0	0

16. How do you consider the preparation you received in your courses at the Faculty, the Department or the Education or Pedagogy Program?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable
- (E) Inadequate

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
975	65	44	77
362	24	10	18
148	10	3	5
7	0	0	0
1	0	0	0

17. How do you evaluate your teaching practice experience?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable
- (E) Inadequate

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
933	62	38	67
370	25	15	26
171	11	4	7
17	1	0	0
2	0	0	0

18. How were the guidance and counseling services you received during your university studies?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
675	45	29	51
442	30	21	37
298	20	4	7
78	5	3	5

19. In general terms, how satisfied are you with the preparation you received as a teacher?

- (A) Very satisfied
- (B) Quite satisfied
- (C) Satisfied
- (D) Not very satisfied
- (E) Dissatisfied

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
889	60	35	61
423	28	19	33
168	11	3	5
12	1	0	0
1	0	0	0

20. Do you have plans to pursue more advanced studies within the field of education?

- (A) Yes
- (B) No
- (C) I have not decided yet.

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
893	60	30	53
82	5	2	4
518	35	25	44

21. Do you have plans to pursue university studies in a field other than education?

- (A) Yes
- (B) No
- (C) I have not decided yet.

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
465	31	31	54
445	30	9	16
583	39	17	30

22. After baccalaureate, what is the highest academic degree you intend to complete?

- (A) None
- (B) Master's degree
- (C) Doctorate
- (D) Other

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
84	6	1	2
844	57	20	35
493	33	34	60
72	5	2	4

23. If you are interested in doing so and if possible, would you pursue more advanced studies at the same institution where you completed or are close to completing your baccalaureate?

- (A) Yes
- (B) No
- (C) I have not decided yet.

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
751	50	25	44
297	20	12	21
445	30	20	35

PCMAS General

The individual results report of the PCMAS General offers the score according to the level: Elementary Level Secondary Level. The score, which expresses performance on the test, is reported on a scale that ranges from a minimum score of 40 points to a maximum of 160. Table 5 below summarizes the results obtained by the population that was examined in March 2021. In the first column of the table the score appears on a scale in intervals of 10 points and then the frequency (number of examinees) in each interval is offered.

Table 5
Distribution of scores of candidates examined in the PCMAS General and level

Scale score	Puerto Rico			UPRM		
	Elementary	Secondary	Total	Elementary	Secondary	Total
160	0	0	0	0	0	0
150-159	0	0	0	0	0	0
140-149	0	2	2	0	1	1
130-139	2	20	22	0	1	1
120-129	28	77	105	0	8	8
110-119	113	117	230	0	18	18
100-109	187	103	290	0	9	9
90-99	172	57	229	2	3	5
80-89	128	20	148	0	1	1
70-79	26	6	32	0	0	0
60-69	2	0	2	0	0	0
50-59	0	0	0	0	0	0
40-49	0	0	0	0	0	0
Average	99	110	103	95	113	112
Median	100	110	103	95	113	113
Standard Deviation	12	13	12	0	10	11
N	658	402	1060	2	41	43

Descriptive statistics of the General PCMAS by content areas

Table 6 presents the descriptive statistics by content areas of the PCMAS General for the last administration in March 2021. The content areas are presented on a scale of 20 to 80 points, with a theoretical average of 50 points and a theoretical standard deviation of 10 points.

Table 6
Descriptive statistics by content areas in the PCMAS General

PCMAS Genera content areas		Average	Median	DE	Minimum	Maximum	N
Puerto Rico	Social Sciences/Humanities	49	49	10	22	80	1,060
	Science and Mathematics	52	54	10	25	80	1,060
	English	50	50	13	20	80	1,060
	Spanish	49	50	10	20	74	1,052
	Methodology/Evaluation	49	47	10	20	76	1,060
	Sociological and Philosophical Foundations	51	54	11	20	80	1,060
	Human Development and Psychology	49	47	10	20	77	1,056
	Pedagogical Situation	52	51	7	32	80	1,060
UPRM	Social Sciences/Humanities	53	56	10	30	71	43
	Science and Mathematics	59	58	9	45	74	43
	English	55	57	13	33	80	43
	Spanish	52	50	9	30	68	43
	Methodology/Evaluation	51	51	9	40	76	43
	Sociological and Philosophical Foundations	56	54	10	37	77	43
	Human Development and Psychology	50	47	8	32	67	43
	Pedagogical Situation	58	57	6	44	68	43

Academic and socioeconomic profile of applicants to take theTeacher Certification Test (PCMAS)

When filling out the application to take the Teacher Certification Test, candidates complete a questionnaire that is intended to gather academic and socioeconomic information. Table 7 presents a summary of the frequency and percentage of the candidates' responses to the questionnaire questions.

Table 7
Summary of frequency and percentage of responses to questionnaire questions completed by candidates when applying for the PCMAS

Questions

1. Indicate your immediate family's monthly income.
- (A) Less than \$250 (3,000 or less annually)

(B) Between \$251 and \$500 (approximately 3,001 to \$6,000 annually)

(C) Between \$501 and \$750 (approximately \$6,001 to \$9,000 annually)

(D) Between \$751 and \$1,083 (approximately \$9,001 to \$13,000 annually)

(E) Between \$1,084 and \$1,666 (approximately \$13,001 to \$20,000 annually)

(F) Between \$1,667 and \$2,500 (approximately \$20,001 to \$30,000 annually)

(G) More than \$2,501 (more than approximately 30,001 annually)
2. Indicate if you have previously taken any of the following Teacher Certification Tests. You can indicate more than one
- (A) Fundamental Knowledge and Communication Skills

(B) Professional Skills Elementary Level

(C) Professional Skills Secondary Level

(D) PCMAS General

(E) Spanish

(F) English

(G) Math

(H) Sciences

(I) Social Studies

(J) I have not examined

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
140	13	6	14
61	6	3	7
75	7	4	9
142	13	6	14
235	22	6	14
251	23	9	21
188	17	9	21

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
0	0	0	0
0	0	0	0
0	0	0	0
139	13	1	2
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
912	87	42	98

3. Indicate the highest academic preparation you have completed or will complete at the end of the current academic year.

- (A) Baccalaureate
- (B) Baccalaureate +30 credits
- (C) Master's Degree
- (D) Master's Degree +30 credits
- (E) Doctoral or Postdoctoral

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
800	73	24	56
172	16	11	26
83	8	4	9
30	3	4	9
7	1	0	0

4. Select the academic average that you estimate you have accumulated by completing the highest academic preparation indicated above.

- (A) From 2.00 to 2.49
- (B) From 2.50 to 2.99
- (C) From 3.00 to 3.49
- (D) From 3.50 to 4.00

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
11	1	0	0
47	4	1	2
433	40	22	51
601	55	20	47

5. From the following alternatives, select the type of school, college or academy in Puerto Rico where you completed all or most of your high school studies. If you did not study in Puerto Rico, mark E.

- (A) Public school, general academic program
- (B) Public school, trade or vocational program
- (C) Private school with predominant teaching in Spanish
- (D) Private school with predominant teaching in English
- (E) Other

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
562	51	25	58
213	20	10	23
199	18	7	16
73	7	1	2
45	4	0	0

6. How many years of study have you completed in the United States of America or in another English-speaking country?

- (A) none
- (B) From one to three years
- (C) From four to six years
- (D) From seven to nine years
- (E) From ten to twelve years
- (F) More than twelve years

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
918	84	40	93
48	4	0	0
44	4	1	2
14	1	1	2
9	1	0	0
59	5	1	2

7. How proficient are you in the English language?

- (A) Much
- (B) Quite
- (C) Regular
- (D) Little
- (E) None

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
292	27	12	28
231	21	9	21
330	30	14	33
196	18	8	19
43	4	0	0

8. How many years, if any, have passed between your last year of study and the time you took this exam.

- (A) None
- (B) Less than a year
- (C) From one to two years
- (D) From three to five years
- (E) More than five years

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
481	44	25	58
245	22	13	30
174	16	3	7
87	8	0	0
105	10	2	5

9. Indicate the years of experience you have as a teacher.

- (A) None
- (B) Less than one year
- (C) From one to two years
- (D) From three to five years
- (E) More than five years

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
417	38	22	51
211	19	8	19
160	15	6	14
148	14	3	7
156	14	4	9

10. During your university studies, how many hours per week did you work while studying?

- (A) None
- (B) From 1 to 6 hours
- (C) From 7 to 12 hours
- (D) From 13 to 20 hours
- (E) From 21 to 30 hours
- (F) More than 30 hours

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
210	19	13	30
125	11	3	7
142	13	6	14
166	15	10	23
188	17	8	19
261	24	3	7

11. Indicate the college credits you have completed in the Faculty or Department of Education.

- (A) None
- (B) From 1 to 15
- (C) From 16 to 30
- (D) From 31 to 45
- (E) From 46 to 60
- (F) More than 60

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
30	3	0	0
22	2	1	2
109	10	18	42
118	11	11	26
128	12	5	12
685	63	8	19

12. Indicate the university credits that you have completed in a College or a Department OTHER than Education (Science, General Studies, Humanities, etc.)

- (A) None
- (B) From 1 to 15
- (C) From 16 to 30
- (D) From 31 to 45
- (E) From 46 to 60
- (F) More than 60

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
188	17	0	0
162	15	1	2
159	15	3	7
141	15	3	7
134	12	4	9
308	28	32	74

13. Indicate the time it will take to complete the bachelor's degree in Education.

- (A) Less than 4 years
- (B) 4 years
- (C) 5 years
- (D) 6 years or more

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
342	31	23	53
177	16	3	7
403	37	10	23
170	16	7	16

14. How do you consider your university preparation in those courses you took outside the Faculty, Department or Education or Pedagogy Program?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable
- (E) Inadequate

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
539	49	26	60
300	27	10	23
232	21	6	14
16	1	1	2
5	0	0	0

15. What competence and understanding have you developed in the level or subject you propose to teach?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable
- (E) Inadequate

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
709	65	28	65
281	26	10	23
99	9	5	12
2	0	0	0
1	0	0	0

16. How do you consider the preparation you received in your courses at the Faculty, the Department or the Education or Pedagogy Program?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable
- (E) Inadequate

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
688	63	24	56
272	25	14	33
126	12	4	9
5	0	1	2
1	0	0	0

17. How do you evaluate your teaching practice experience?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable
- (E) Inadequate

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
734	67	27	63
240	22	11	26
107	10	4	9
5	0	1	2
6	1	0	0

18. How were the guidance and counseling services you received during your university studies?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
494	45	18	42
294	27	14	33
247	23	8	19
57	5	3	7

19. In general terms, how satisfied are you with the preparation you received as a teacher?

- (A) Very satisfied
- (B) Quite satisfied
- (C) Satisfied
- (D) Not very satisfied
- (E) Dissatisfied

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
625	57	21	49
314	29	14	33
141	13	7	16
11	1	1	2
1	0	0	0

20. Do you have plans to pursue more advanced studies within the field of education?

- (A) Yes
- (B) No
- (C) I have not decided yet.

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
625	57	17	40
46	4	2	5
421	39	24	56

21. Do you have plans to pursue university studies in a field other than education?

- (A) Yes
- (B) No
- (C) I have not decided yet.

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
329	30	17	40
352	32	11	26
411	38	15	35

22. After baccalaureate, what is the highest academic degree you intend to complete?

- (A) None
- (B) Master's degree
- (C) Doctorate
- (D) Other

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
80	7	3	7
631	58	22	51
325	30	17	40
56	5	1	2

23. If you are interested in doing so and if possible, would you pursue more advanced studies at the same institution where you completed or are close to completing your baccalaureate?

- (A) Yes
- (B) No
- (C) I have not decided yet.

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
562	51	21	49
181	17	9	21
349	32	13	30

PCMAS General

The individual results report of the PCMAS General offers the score according to the level: Elementary Level Secondary Level. The score, which expresses performance on the test, is reported on a scale that ranges from a minimum score of 40 points to a maximum of 160. Table 5 below summarizes the results obtained by the population that was examined in March 2021. In the first column of the table the score appears on a scale in intervals of 10 points and then the frequency (number of examinees) in each interval is offered.

Table 5
Distribution of scores of candidates examined in the PCMAS General and level

Scale score	Puerto Rico			UPRM		
	Elementary	Secondary	Total	Elementary	Secondary	Total
160	0	0	0	0	0	0
150-159	0	0	0	0	0	0
140-149	0	5	5	0	1	1
130-139	2	14	16	0	4	4
120-129	21	58	79	0	7	7
110-119	88	106	194	5	10	15
100-109	152	75	227	0	9	9
90-99	153	77	230	1	4	5
80-89	138	32	170	0	5	5
70-79	44	9	53	0	0	0
60-69	2	0	2	0	0	0
50-59	0	0	0	0	0	0
40-49	0	0	0	0	0	0
Average	97	107	101	111	112	111
Median	104	109	101	112	114	114
Standard Deviation	13	14	14	8	16	15
N	600	376	976	6	40	46

Descriptive statistics of the General PCMAS by content areas

Table 6 presents the descriptive statistics by content areas of the PCMAS General for the last administration in March 2021. The content areas are presented on a scale of 20 to 80 points, with a theoretical average of 50 points and a theoretical standard deviation of 10 points.

Table 6
Descriptive statistics by content areas in the PCMAS General

PCMAS General content areas		Average	Median	DE	Minimum	Maximum	N
Puerto Rico	Social Sciences/Humanities	48	48	10	23	78	977
	Science and Mathematics	50	49	11	23	80	977
	English	49	49	13	23	80	977
	Spanish	47	48	11	20	80	977
	Methodology/Evaluation	50	51	10	22	79	977
	Sociological and Philosophical Foundations	50	51	11	20	80	977
	Human Development and Psychology	49	50	10	20	80	977
	Pedagogical Situation	51	51	8	20	73	976
UPRM	Social Sciences/Humanities	55	52	12	31	77	46
	Science and Mathematics	60	62	11	37	80	46
	English	55	61	12	28	73	46
	Spanish	52	55	12	20	69	46
	Methodology/Evaluation	57	58	9	40	72	46
	Sociological and Philosophical Foundations	55	57	11	29	79	46
	Human Development and Psychology	53	59	12	29	80	46
	Pedagogical Situation	52	51	8	36	67	46

Academic and socioeconomic profile of applicants to take theTeacher Certification Test (PCMAS)

When filling out the application to take the Teacher Certification Test, candidates complete a questionnaire that is intended to gather academic and socioeconomic information. Table 7 presents a summary of the frequency and percentage of the candidates' responses to the questionnaire questions.

Table 7
Summary of frequency and percentage of responses to questionnaire questions completed by candidates when applying for the PCMAS

Questions

1. Indicate your immediate family's monthly income.
- (A) Less than \$250 (3,000 or less annually)

(B) Between \$251 and \$500 (approximately 3,001 to \$6,000 annually)

(C) Between \$501 and \$750 (approximately \$6,001 to \$9,000 annually)

(D) Between \$751 and \$1,083 (approximately \$9,001 to \$13,000 annually)

(E) Between \$1,084 and \$1,666 (approximately \$13,001 to \$20,000 annually)

(F) Between \$1,667 and \$2,500 (approximately \$20,001 to \$30,000 annually)

(G) More than \$2,501 (more than approximately 30,001 annually)
2. Indicate if you have previously taken any of the following Teacher Certification Tests. You can indicate more than one
- (A) Fundamental Knowledge and Communication Skills

(B) Professional Skills Elementary Level

(C) Professional Skills Secondary Level

(D) PCMAS General

(E) Spanish

(F) English

(G) Math

(H) Sciences

(I) Social Studies

(J) I have not examined

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
123	12	3	7
63	6	4	9
31	3	2	4
92	9	1	2
223	22	11	24
244	24	5	11
249	24	20	43

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
24	2	0	0
58	5	0	0
18	2	0	0
196	17	2	4
11	1	0	0
18	2	0	0
11	1	0	0
8	1	0	0
8	1	0	0
777	69	44	96

3. Indicate the highest academic preparation you have completed or will complete at the end of the current academic year.

- (A) Baccalaureate
- (B) Baccalaureate +30 credits
- (C) Master's Degree
- (D) Master's Degree +30 credits
- (E) Doctoral or Postdoctoral

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
703	69	21	46
177	17	18	39
102	10	5	11
36	4	2	4
7	1	0	0

4. Select the academic average that you estimate you have accumulated by completing the highest academic preparation indicated above.

- (A) From 2.00 to 2.49
- (B) From 2.50 to 2.99
- (C) From 3.00 to 3.49
- (D) From 3.50 to 4.00

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
10	1	0	0
74	7	1	2
400	39	19	41
541	53	26	57

5. From the following alternatives, select the type of school, college or academy in Puerto Rico where you completed all or most of your high school studies. If you did not study in Puerto Rico, mark E.

- (A) Public school, general academic program
- (B) Public school, trade or vocational program
- (C) Private school with predominant teaching in Spanish
- (D) Private school with predominant teaching in English
- (E) Other

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
568	55	24	52
193	19	10	22
165	16	6	13
58	6	5	11
41	4	1	2

6. How many years of study have you completed in the United States of America or in another English-speaking country?

- (A) none
- (B) From one to three years
- (C) From four to six years
- (D) From seven to nine years
- (E) From ten to twelve years
- (F) More than twelve years

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
859	84	37	80
44	4	1	2
42	4	3	7
17	2	0	0
15	1	1	2
47	5	4	9

7. How proficient are you in the English language?

- (A) Much
- (B) Quite
- (C) Regular
- (D) Little
- (E) None

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
260	25	18	39
188	18	10	22
291	28	17	37
223	22	1	2
62	6	0	0

8. How many years, if any, have passed between your last year of study and the time you took this exam.

- (A) None
- (B) Less than a year
- (C) From one to two years
- (D) From three to five years
- (E) More than five years

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
390	38	24	52
236	23	19	41
115	11	2	4
105	10	1	2
178	17	0	0

9. Indicate the years of experience you have as a teacher.

- (A) None
- (B) Less than one year
- (C) From one to two years
- (D) From three to five years
- (E) More than five years

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
311	30	22	48
169	17	9	20
180	18	9	20
153	15	6	13
211	21	0	0

10. During your university studies, how many hours per week did you work while studying?

- (A) None
- (B) From 1 to 6 hours
- (C) From 7 to 12 hours
- (D) From 13 to 20 hours
- (E) From 21 to 30 hours
- (F) More than 30 hours

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
184	18	15	33
162	16	7	15
152	15	3	7
119	12	5	11
181	18	9	20
226	22	7	15

11. Indicate the college credits you have completed in the Faculty or Department of Education.

- (A) None
- (B) From 1 to 15
- (C) From 16 to 30
- (D) From 31 to 45
- (E) From 46 to 60
- (F) More than 60

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
45	4	0	0
19	2	6	13
105	10	22	48
91	9	7	15
113	11	2	4
651	64	9	20

12. Indicate the university credits that you have completed in a College or a Department OTHER than Education (Science, General Studies, Humanities, etc.)

- (A) None
- (B) From 1 to 15
- (C) From 16 to 30
- (D) From 31 to 45
- (E) From 46 to 60
- (F) More than 60

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
250	24	3	7
147	14	0	0
149	15	1	2
102	10	6	13
120	12	1	2
256	25	35	76

13. Indicate the time it will take to complete the bachelor's degree in Education.

- (A) Less than 4 years
- (B) 4 years
- (C) 5 years
- (D) 6 years or more

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
367	36	21	67
177	17	2	4
313	31	7	15
167	16	6	13

14. How do you consider your university preparation in those courses you took outside the Faculty, Department or Education or Pedagogy Program?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable
- (E) Inadequate

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
501	49	31	67
294	29	11	24
215	21	4	9
10	1	0	0
4	0	0	0

15. What competence and understanding have you developed in the level or subject you propose to teach?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable
- (E) Inadequate

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
657	64	30	65
281	27	13	28
85	8	3	7
1	0	0	0
0	0	0	0

16. How do you consider the preparation you received in your courses at the Faculty, the Department or the Education or Pedagogy Program?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable
- (E) Inadequate

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
618	60	30	65
280	27	14	30
124	12	2	4
2	0	0	0
0	0	0	0

17. How do you evaluate your teaching practice experience?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable
- (E) Inadequate

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
683	67	26	57
245	24	16	35
91	9	3	7
3	0	0	0
2	0	1	2

18. How were the guidance and counseling services you received during your university studies?

- (A) Very suitable
- (B) Quite suitable
- (C) Suitable
- (D) Not very suitable

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
482	47	18	39
279	27	17	37
214	21	10	22
49	5	1	2

19. In general terms, how satisfied are you with the preparation you received as a teacher?

- (A) Very satisfied
- (B) Quite satisfied
- (C) Satisfied
- (D) Not very satisfied
- (E) Dissatisfied

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
593	58	26	57
309	30	12	26
114	11	8	17
8	1	0	0
0	0	0	0

20. Do you have plans to pursue more advanced studies within the field of education?

- (A) Yes
- (B) No
- (C) I have not decided yet.

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
605	59	17	37
36	4	3	7
383	37	26	43

21. Do you have plans to pursue university studies in a field other than education?

- (A) Yes
- (B) No
- (C) I have not decided yet.

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
235	23	18	39
382	37	8	17
407	40	20	43

22. After baccalaureate, what is the highest academic degree you intend to complete?

- (A) None
- (B) Master's degree
- (C) Doctorate
- (D) Other

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
85	8	5	11
576	56	18	39
308	30	19	41
55	5	4	9

23. If you are interested in doing so and if possible, would you pursue more advanced studies at the same institution where you completed or are close to completing your baccalaureate?

- (A) Yes
- (B) No
- (C) I have not decided yet.

Puerto Rico		UPRM	
Frequency	Percentage(%)	Frequency	Percentage(%)
516	50	21	46
163	16	8	17
345	34	17	37

