



# Student Versus Preceptor Assessment of Competency Performance During Advanced Pharmacy Practice Experiences

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## Background

SIUE school of pharmacy uses CAPE educational outcomes established by the ACPE as a way to assess students during their final year of the professional program. Students and preceptors submit evaluations based on CAPE educational outcomes to assess student competency throughout the year during the student's final year.

## Objectives

-To analyze and evaluate the differences between student and preceptor responses to evaluations submitted during the student's final year of pharmacy school

-To identify areas for improvement within the school of pharmacy curriculum and suggest recommendations moving forward

## Methods

-Students and preceptors submit evaluations of the student at the end of each rotation during the final year  
 -Evaluations are based on CAPE educational outcomes and include areas such as: foundational knowledge, problem solving, self-awareness, patient centered care, communication, and professionalism  
 -Responses to evaluations were organized by the student rotation type and analyzed

Foundational Knowledge Responses				Patient Centered Care Responses			
	Advanced	Basic	Intermediate		Advanced	Basic	Intermediate
APPE Req Ambulatory Care	39.2%	12.1%	48.7%	APPE Req Ambulatory Care	45.1%	8.8%	46.1%
APPE Req Community 4	79.1%	6.6%	14.2%	APPE Req Community 4	81.1%	5.0%	13.9%
APPE Req Hospital 4	81.1%	1.6%	17.3%	APPE Req Hospital 4	83.7%	0.7%	15.6%
APPE Req Medicine	41.0%	5.9%	53.1%	APPE Req Medicine	57.3%	5.2%	37.5%
Elective	65.7%	3.0%	31.3%	Elective	71.4%	2.9%	25.7%
<b>Grand Total</b>	<b>62.4%</b>	<b>5.1%</b>	<b>32.5%</b>	<b>Grand Total</b>	<b>68.6%</b>	<b>4.1%</b>	<b>27.3%</b>

  

Problem Solving Responses				Communication Responses			
	Advanced	Basic	Intermediate		Advanced	Basic	Intermediate
APPE Req Ambulatory Care	43.8%	13.1%	43.1%	APPE Req Ambulatory Care	54.6%	6.5%	38.9%
APPE Req Community 4	77.2%	6.6%	16.2%	APPE Req Community 4	76.5%	6.3%	17.2%
APPE Req Hospital 4	80.8%	1.6%	17.6%	APPE Req Hospital 4	83.4%	1.6%	15.0%
APPE Req Medicine	52.1%	6.5%	41.4%	APPE Req Medicine	62.5%	4.2%	33.2%
Elective	68.4%	2.0%	29.6%	Elective	74.1%	2.0%	23.8%
<b>Grand Total</b>	<b>65.5%</b>	<b>4.9%</b>	<b>29.6%</b>	<b>Grand Total</b>	<b>71.3%</b>	<b>3.6%</b>	<b>25.2%</b>

  

Self-Awareness Responses				Professionalism Responses			
	Advanced	Basic	Intermediate		Advanced	Basic	Intermediate
APPE Req Ambulatory Care	57.2%	8.5%	34.3%	APPE Req Ambulatory Care	75.5%	3.6%	20.9%
APPE Req Community 4	78.8%	8.6%	12.6%	APPE Req Community 4	85.4%	4.3%	10.3%
APPE Req Hospital 4	85.7%	2.3%	12.1%	APPE Req Hospital 4	90.2%	1.3%	8.5%
APPE Req Medicine	74.6%	3.9%	21.5%	APPE Req Medicine	83.7%	2.3%	14.0%
Elective	78.2%	2.0%	19.8%	Elective	87.9%	1.4%	10.8%
<b>Grand Total</b>	<b>75.8%</b>	<b>4.2%</b>	<b>20.0%</b>	<b>Grand Total</b>	<b>85.5%</b>	<b>2.2%</b>	<b>12.3%</b>

Figure 1: Preceptor Responses to the evaluation submitted at the end of each student rotation

Foundational Knowledge Responses				Patient Centered Care Responses			
	Advanced	Basic	Intermediate		Advanced	Basic	Intermediate
APPE Req Ambulatory Care	48.6%	2.4%	49.0%	APPE Req Ambulatory Care	59.2%	1.4%	39.4%
APPE Req Community 4	57.4%	0.3%	42.3%	APPE Req Community 4	77.3%	1.0%	21.6%
APPE Req Hospital 4	58.6%	0.7%	40.7%	APPE Req Hospital 4	72.7%	0.7%	26.6%
APPE Req Medicine	44.6%	2.4%	53.0%	APPE Req Medicine	55.9%	1.7%	42.4%
Elective	61.7%	1.1%	37.1%	Elective	69.1%	0.8%	30.1%
<b>Grand Total</b>	<b>56.3%</b>	<b>1.3%</b>	<b>42.3%</b>	<b>Grand Total</b>	<b>67.4%</b>	<b>1.0%</b>	<b>31.6%</b>

  

Problem Solving Responses				Communication Responses			
	Advanced	Basic	Intermediate		Advanced	Basic	Intermediate
APPE Req Ambulatory Care	54.3%	1.4%	44.3%	APPE Req Ambulatory Care	71.3%	1.4%	27.3%
APPE Req Community 4	70.2%	0.3%	29.5%	APPE Req Community 4	85.5%	0.0%	14.5%
APPE Req Hospital 4	67.6%	0.3%	32.1%	APPE Req Hospital 4	79.3%	1.0%	19.7%
APPE Req Medicine	56.1%	1.0%	42.9%	APPE Req Medicine	73.8%	0.3%	25.8%
Elective	65.7%	0.8%	33.5%	Elective	76.7%	0.7%	22.7%
<b>Grand Total</b>	<b>63.6%</b>	<b>0.8%</b>	<b>35.6%</b>	<b>Grand Total</b>	<b>77.1%</b>	<b>0.7%</b>	<b>22.2%</b>

  

Self-Awareness Responses				Professionalism Responses			
	Advanced	Basic	Intermediate		Advanced	Basic	Intermediate
APPE Req Ambulatory Care	77.2%	1.4%	21.5%	APPE Req Ambulatory Care	92.0%	0.3%	7.6%
APPE Req Community 4	83.3%	0.0%	16.7%	APPE Req Community 4	92.4%	0.0%	7.6%
APPE Req Hospital 4	82.9%	0.3%	16.8%	APPE Req Hospital 4	94.2%	0.0%	5.8%
APPE Req Medicine	83.8%	0.3%	15.8%	APPE Req Medicine	93.9%	0.0%	6.1%
Elective	84.5%	0.6%	14.9%	Elective	93.2%	0.5%	6.3%
<b>Grand Total</b>	<b>83.0%</b>	<b>0.5%</b>	<b>16.5%</b>	<b>Grand Total</b>	<b>93.2%</b>	<b>0.2%</b>	<b>6.6%</b>

Figure 2: Student Responses to the evaluation submitted at the end of each student rotation

## Results

-Students and preceptors agreed that students were mostly advanced in each area of the evaluation submitted  
 -For rotation types of ambulatory care and medicine, both students and preceptors assessed the student as more intermediate or basic compared to other rotation types  
 -For the ambulatory care type of rotation, both students and preceptors evaluated the student as more intermediate than advanced for foundational knowledge, and students answered more intermediate than advanced for patient centered care.

## Limitations

-Data was only gathered at one pharmacy school, SIUE school of pharmacy  
 -Responses were not evaluated by each individual graduating year  
 -Electives account for over half the student's rotations during the final year but are only represented as one rotation type

## Implications

-Recommendations on curriculum improvements can be made based on responses to areas that are not as advanced as others  
 -Further research should be done at multiple pharmacy schools  
 -The school of pharmacy should continue to evaluate data to determine if recent changes to curriculum have an effect on future responses