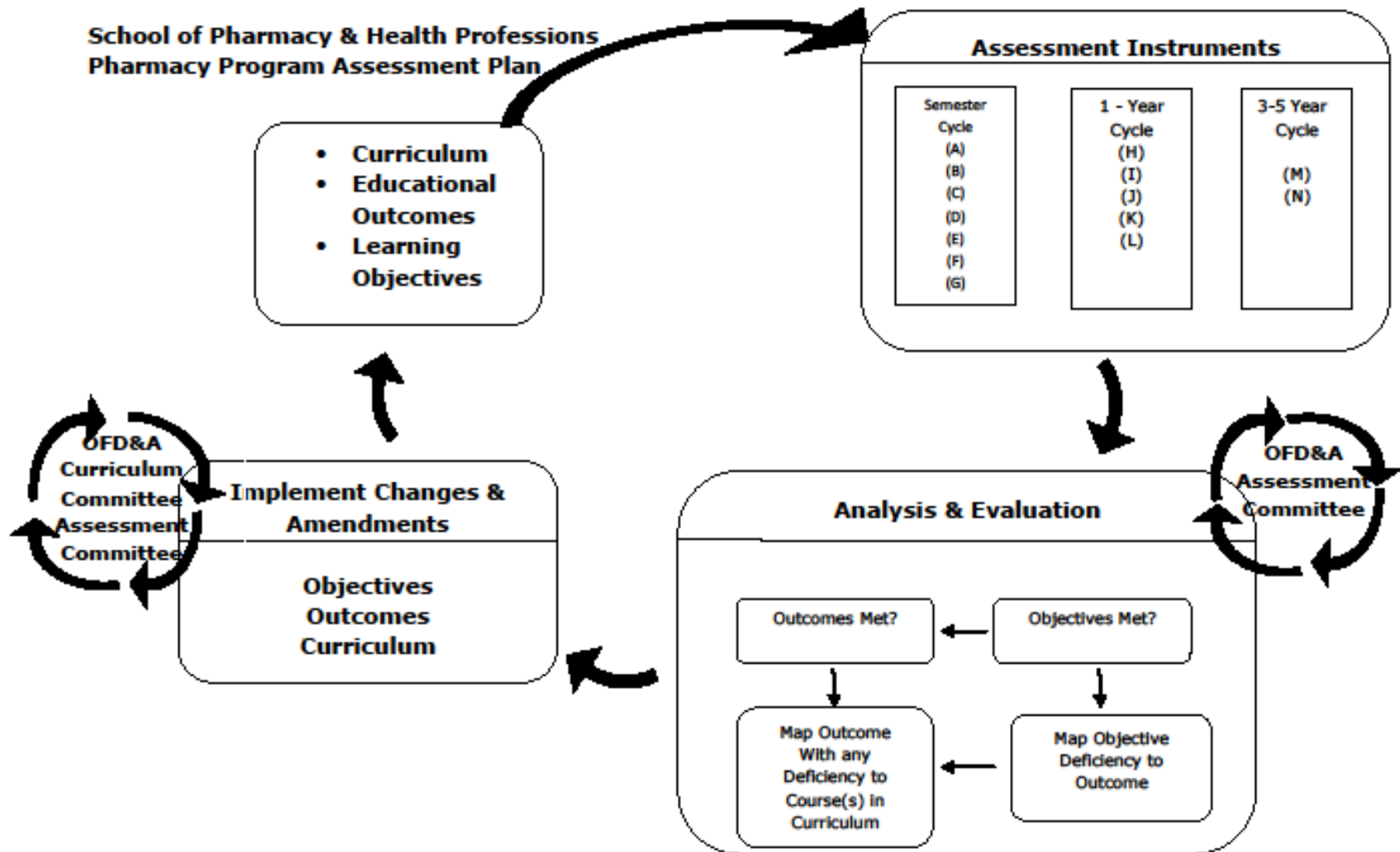


Application of NABP's Pharmacy Curriculum Outcomes Assessment (PCOA) Tool in a Global Assessment Process at Creighton University

Sam Augustine, Pharm.D., FAPhA
Professor, Pharmacy Practice

**School of Pharmacy & Health Professions
Pharmacy Program Assessment Plan**



- Curriculum
- Educational Outcomes
- Learning Objectives

Assessment Instruments

Semester Cycle
(A)
(B)
(C)
(D)
(E)
(F)
(G)

1 - Year Cycle
(H)
(I)
(J)
(K)
(L)

3-5 Year Cycle
(M)
(N)

Analysis & Evaluation

Outcomes Met?

Objectives Met?

Map Outcome With any Deficiency to Course(s) in Curriculum

Map Objective Deficiency to Outcome

Semester Cycle

- (A) Student Evaluation of Didactic Course
- (B) Student Evaluation of Rotation
- (C) Didactic Course Grades
- (D) Rotation Performance Grades Assessments
- (E) Embedded Course Assessments - Objectives
- (F) Embedded Course Assessments - Ed. Outcomes
- (G) OSCEs

1 - Year Cycle

- (H) PreNAPLEX results
- (I) PCOA
- (J) OASA (LASSI, Learning Styles etc.) & Any Annualized Semester Specific Surveys
- (K) Graduate Surveys
- (L) NAPLEX & MPJE results

3-5 Year Cycle

- (M) Alumni Survey
- (N) Preceptor Survey

Status of PCOA in Curriculum Assessment Plan

- 2009 – 2012
 - Individual student's self assessment
- 2012 – Future

Pharmacy Assessment Committee's Intent

- Determine Value
- Best Applications?
 - Curricular performance
 - Verification of pathway parity
 - Prediction of successful program completion

Templates for Analysis

- Individual student performance
 - Comparisons
- Individual student's progression
 - Predictive value
- Pathway Parity
 - Review of subtopics

PCOA Content Area vs. NAPLEX Area

PCOA	P3 Ind CU	P3 Nation	% Diff	NAPLEX	Individual	National	% Diff
Basic Biomedical	459	337	30.7%	Total	121	103	16.1%
Pharmaceutical	420	339	21%	Area 1	15	12.63	17%
Social/Behavioral Administrative	453	341	28%	Area 2	13	12.51	4%
Clinical	501	356	34%	Area 3	13	12.84	1%
Total Exam	456	344	28%				

NAPLEX

- 1 - Pharmacotherapy /Tx Outcomes
- 2 - Preparation/Dispensing Medications
- 3 - Health Care Information /Public Health

Performance Comparisons – PCOA (Multiple) vs NAPLEX

	PCOA	PCOA	PCOA	NAPLEX
	2009	2010	Score change	2010
Student 1	404	370	-34	116
Student 2	455	485	+30	124
Student 3	444	422	-22	120
Student 4	422	419	-3	111
Student 5	382	383	+1	128
Average	421	416	-5	120

Pathway Comparisons

P3 Campus/Distance 2010

	Yr 3 (% ile)			
	Class of 2010			
	19	52	Difference	National
Campus	Distance			
<u>Clinical Sciences</u>				
Pharmacy Practice and Pharmacist-Provided Care	79	78	1	70
Medication Dispensing and Distribution Systems	85	86	-1	71
Pharmacotherapy - Practice Guidelines and Clinical Trials	57	67	-10	56
Pharmacotherapy - Health Promotion/Disease Prevention	82	76	6	75
Pharmacotherapy - Pharmaceutical Care	66	66	0	60
Pharmacist-provided care for Special Populations	60	62	-2	50
Drug Information	80	78	2	77
Medication Safety	97	97	0	88
Literature Evaluation and Research Design	67	66	1	56
Patient Assessment Laboratory	95	95	0	83

Assessment Committee PCOA Considerations

- Cost
- Predictive value
- Appropriate and effective timing
 - Multiple years
 - What curricular year?
- Identification of curricular strengths and weaknesses
 - CQI
- Monitor effects of curricular change