

Assessing the Co-Curriculum across the Pharmaceutical Sciences and Pharmacy Practice Courses

Melissa S. Medina, Vince Dennis, Michael Ihnat, JoLaine R. Draugalis

The University of Oklahoma Health Sciences Center College of Pharmacy; Oklahoma City

Abstract

The University of Oklahoma College of Pharmacy created a plan to assess students' completion of & knowledge gained from activities in 5 co-curricular areas using a course management system (D2L).

First, the OU Assessment Committee categorized all co-curricular activities into 5 umbrella areas: patient education; leadership; fitness/mental health; community service; & professional development.

Then the committee tagged each of the 5 areas to the CAPE/ACPE Standards 3 & 4 as primary & secondary outcomes. ^{1,2}

The committee then outlined minimum requirements for each of the 5 areas over four years & included a menu of available co-curricular activity options for students to select from to fulfill the requirements.

Finally, the committee linked the 5 co-curricular areas to specific pharmaceutical, pharmacy practice/clinical, & social & administrative sciences courses across the didactic curriculum (years P1-P4).

Each course is responsible for assessing its' co-curricular area using multiple-choice test questions that are aligned with the CAPE Domains 3 & 4 objectives & for assigning a percent of the course grade to the co-curricular assessment.

Connecting a co-curricular area & activities with a specific course in the curriculum involves all faculty in the pharmaceutical, clinical, & social and administrative sciences, in the assessment of co-curricular outcomes. This allows all faculty to have involvement in & a common assessment mission for the co-curriculum.

5 Co-Curricular Activity Areas

CAPE Outcome For Co-Curriculum	Activity Options that Address Co-Curricular Area	Affiliated Year, Semester & Course	Assessments
Area 1. Patient Education CAPE outcomes addressed: 3.2 Educator 3.3 Advocate 3.4 IPE Collaborator 3.6 Communicator Secondary outcomes addressed: 2.1, 2.3, 2.4, 3.1, 3.5, 4.1, 4.4	Patient Education <ul style="list-style-type: none"> Health Fairs Flu clinics** City Rescue Mission Nat/InstalMission Trips Brown Bag Med Program Attend Education talk Clinical Skills <u>Compet.</u> Pt Counseling <u>Compet.</u> Sooner Safety Week Org. talk at P1 Orientation Know Your Diabetes Risk Millwood Students Asthma Education Service Stroke Risk OSHP Smoking <u>Cess.</u> Clinic The Big Event (med) Hispanic Health Fair Student Tutoring Community Teacher Pt educ. at work/IPPE*** 	<ul style="list-style-type: none"> P1 S Drug Info P2 S Pt Assessment P3 S Clin <u>Tox.</u> P4 S Seminar **IPPE Credit *** to empower pt to take control of health, navigate HC system, obtain resources (see 3.3 obj)	Take D2L quiz in Co-Curriculum Community *~ 5 Q each based on CAPE objectives Additional MC reflection questions and activity tracking questions Upload artifacts into D2L <u>dropbox</u>
Area 2. Leadership[^] CAPE outcomes addressed: 4.2 Leader 3.1 Problem Solver 4.3 Innovator Secondary outcomes addressed: 3.2, 3.6, 4.1, 4.4	Leadership[^] <ul style="list-style-type: none"> Nat/Campus/college committee member# Nat/Campus/college officer or <u>com</u> chair# Ambassadors Program# Crimson Club# Pharmacy Month chairs# Attend PLS or College sponsored leadership talk OSHP District Meeting PMC DUR meeting HSC Leadership lunch series OK Legislative Day* State Board <u>note</u> (P4 only) Service <u>note</u> with APPE preceptor (P4 only) Community Coach# <u>Comm. Serv. Chair/Officer#</u> 	<ul style="list-style-type: none"> P1 S Drug Info P2 S Pt Assessment P3 S Clin <u>Tox.</u> P4 S Seminar ^serve on committee or lead committee #elected members only *Need course permission to miss class	Take D2L quiz in Co-Curriculum Community *~ 5 Q each based on CAPE objectives Additional MC reflection questions and activity tracking questions Upload artifacts into D2L <u>dropbox</u>
Area 3. Fitness/Mental Health CAPE outcomes addressed: 4.1 Self-awareness Secondary outcomes addressed: 2.3, 3.3, 3.5, 4.4	Fitness/Mental Health <ul style="list-style-type: none"> Health charity 5K/walks OUCOP Adrenaline Run Book club (campus or other) Exercise class Extramural sports team Art class Must document activity	<ul style="list-style-type: none"> P1 F Math P2 F Biotech P3 F Law P4 F Seminar 	Take D2L quiz in Co-Curriculum Community *~ 5 Q each based on CAPE objectives Additional MC reflection questions and activity tracking questions Upload artifacts into D2L <u>dropbox</u>
Area 4. Community Service CAPE outcomes addressed: 3.5 Cultural Sensitivity Secondary outcomes addressed: 2.3, 2.4	Community Service <ul style="list-style-type: none"> Community Food Bank Habitat for Humanity Sooner Standard Children's Hospital Big Event (non-med.) Church outreach event 	<ul style="list-style-type: none"> P1 F Math P2 F Biotech P3 F Law P4 F Seminar 	Take D2L quiz in Co-Curriculum Community *~ 5 Q each based on CAPE objectives Additional MC reflection questions and activity tracking questions Upload artifacts into D2L <u>dropbox</u>
Area 5. Professional Development CAPE outcomes addressed: 4.4 Professionalism Secondary outcomes addressed: 3.2, 3.4, 3.6, 4.1	Professional Development <ul style="list-style-type: none"> Attend Prof Seminar College Seminar National/regional meetings Walmart Scholar Grand Rounds Education Grand Rounds Resident Rounds Volunteer research[^] 	<ul style="list-style-type: none"> P1 F Math P2 F Biotech P3 F Law P4 F Seminar ^not course credit or IS credit	Take D2L quiz in Co-Curriculum Community *~ 5 Q each based on CAPE objectives Additional MC reflection questions and activity tracking questions Upload artifacts into D2L <u>dropbox</u>

Total Number of Activities

Student year	#/Semester/Total	Fall Course	Spring Course
P1	3 Fall, 2 Spring = 5	Math	Drug Info
P2	3 Fall, 2 Spring = 5	Biotech	Pt Assessment
P3	3 Fall, 2 Spring = 5	Law	<u>Tox</u>
P4	3 Fall, 2 Spring = 5	<u>F Sem</u>	<u>S Sem</u>

Pros & Cons of Assessment Model

Pros

- Students would log hours in D2L quiz
- Can require knowledge remediation since D2L
- Associating with course offers progression rules
- No single activity is required, menu of options
- Could write 1 reflection paper for each area (5)
- Non-listed activities require approval from AD
- Does not double dip with course credit activities
- Can complete over summer or intercession & log in fall or spring

Cons

- Need to ensure enough activities available for all
- Need D2L portfolio system to capture artifacts
- All but 2 courses linked with co-curricular area
- Need 1 person to load all quizzes into each D2L course, raising question if housing in Co-Curriculum CMS is better option
- Could use Pharm. Sci. & Clinical faculty to read & grade reflections instead as advisors, but would need grading rubrics & training

References

- Medina MS, Plaza CM, Stowe CD, et al. Center for the Advancement of Pharmacy Education (CAPE) 2013 educational outcomes. *Am J Pharm Educ.* 2013, 77(8):Article 162.
- Accreditation Council for Pharmacy Education. ACPE standards 2016. <https://www.acpe-accredit.org/pdf/Standards2016FINAL.pdf>. Accessed May 21, 2018