

University of South Carolina College of Pharmacy Curricular Review Process

Review Process Overview:

The purpose of this course review process is to ensure continuous curriculum assessment and improvement as well as compliance with the Accreditation Council for Pharmacy Education (ACPE) standards. Core curriculum courses are reviewed to ensure that the following are accomplished:

- Courses are aligned with overall curricular goals.
- Courses are designed to meet their intended objectives.
- Course content is taught at an appropriate breadth and depth for the entry level pharmacist.
- Each course is appropriately placed within the overall curriculum and course content taught in a complementary manner across the curriculum.
- Student learning is assessed appropriately and student achievement of course goals is ensured.
- Course coordinators have opportunity to work as team members with the Curriculum Committee in the continuous quality improvement and development process.

Each P1-P3 core course within the Doctor of Pharmacy curriculum will undergo formal review by the College of Pharmacy Curriculum Committee no less than every 4 years. A course may be reviewed more frequently in the event of either of the following:

- -a course pass rate below 85% for two consecutive years
- -a student course evaluation (SCE) Global Index score below 4.0 for two consecutive evaluations.

During the course review, each course will be evaluated in two primary areas, course design and assessment of student learning. Each of these areas are further broken down into domains as shown below. Each domain will be evaluated as "Meets" or "Does Not Meet".

- I. Course Design
 - A. Student learning outcomes (SLOs) are aligned with overall curricular goals (Center for the Advancement of Pharmacy Education (CAPE) and ACPE (or Entrustable Professional Activity (EPAs) and Pharmacists' Patient Care Process (PPCP) as applicable for laboratory courses) and mapping is complete and up to date
 - B. Course level SLOs are specific, measurable, and higher order as appropriate
 - C. Course level SLOs are recognized as having been covered by learners
 - D. Course description, instructional method, prerequisites, and credit hours listed within syllabus match that present within the College of Pharmacy bulletin and Student Information System (SIS)
 - E. Pedagogical strategies facilitate student learning
 - F. Outside support is available to learners
 - G. Course design and organization are conducive to learning
 - H. Course content is current and a plan for continuous update and quality improvement exists
 - I. Course placement within overall curriculum is appropriate

- II. Assessment of student learning
 - A. Grading is explained to learners
 - B. Assessments are appropriately discriminatory
 - C. Assessments determine the mastery of SLOs
 - D. Assessments were adequate in number are timed appropriately

The following data sources will be used for course evaluations:

- The two most recent SCEs of the course generated within the past 4 years. The average score for selected questions will be utilized.
- Current course map, including evaluation of pedagogical strategies used in course
- > Official course record information from SIS, including course's instructional methodology
- Course coordinator questionnaire (Appendix 1)
- ➤ Materials from the most recent course delivery:
 - Syllabus, including course SLOs, testing/grading procedures, and topical outline
 - Course coordinator contact information and/or office hours provided on learning management system (LMS) and/or in syllabus
 - Supporting materials posted on LMS such as outlines, handouts, slides, and other similar artifacts
 - Exams or other formal assessments utilized
 - Exam item analysis
 - Exam question or other assessment mapping to SLOs

Review Process Stepwise Guide:

- 1. In May of each year, the Curriculum Committee will determine which courses will be reviewed during the coming academic year based upon the course's placement in the four-year review cycle. In the event of course pass rate below 85% for two consecutive years and/or student evaluation global index scores below 4.0 for two consecutive evaluations, a course will also be added to the list of those to be evaluated in the coming year.
- 2. In May of each year, the Program Coordinator, Assessment and Academic Services, will contact course coordinators for each course scheduled for review in the coming academic year. The Program Coordinator will provide the course coordinator questionnaire for the coordinator's completion. The coordinator must return this completed questionnaire to the Program Coordinator by the first day of class for the subsequent fall semester.
- 3. During each summer, the Program Coordinator will gather the following assessment data for each course scheduled for review in the coming academic year:
 - Most recent course syllabus
 - Two most recent course evaluations inclusive of comments and college average for use as benchmark comparator
 - Current course mapping information
 - Most recent major examinations and/or assessments in course
 - Most recent major examinations and/or assessment mapping
 - Most recent major examinations item analysis data with statistics
- 4. In August of each year, the Curriculum Committee will assign a committee member to serve as the reviewer for each course which will be reviewed during the current academic year.

- 5. Upon assignment of reviewer, the Program Coordinator will provide evaluation items and completed course coordinator questionnaire to the reviewer. The reviewer will also be assigned to the course builder view within the most recent year's course LMS page.
- 6. The reviewer will evaluate the information provided and conduct a preliminary assessment of the course utilizing the course review rubric (Appendix 2). The reviewer will then meet with the course coordinator to review and discuss findings. Following this meeting, the reviewer's report will be forwarded to the Curriculum Committee Chair.
- 7. The reviewer will present the course to the Curriculum Committee as scheduled by the Curriculum Committee Chair.
- 8. The Curriculum Committee will prepare a final report including areas of strength, areas which do not meet expectations, revision recommendations, and year of next review. This report will be shared with the course coordinator and course coordinator's department chair.
- 9. In the event a course receives revision recommendations, the course coordinator, in consultation with their department chair, will respond with a written plan for changes to remedy the issue or a rationale for why no change is required by the due date established by the Curriculum Committee.
- 10. After the next offering of the course, the course coordinator will provide a report on the progress made to the Curriculum Committee and Department Chairs, within a month of the end of the semester of that subsequent course offering.

Appendix 1: Course Coordinator Questionnaire

Course Name:

Course Coordinator(s):

- 1. Describe how the course builds upon preceding courses (for P1 courses, this could be prerequisites), supports subsequent courses, and applies to the skills necessary for an entry-level pharmacist.
- 2. List any significant prerequisite learning deficits noted in students entering this course. Provide any steps taken to mitigate this issue to this point.
- 3. Describe how active learning methods and other activities are incorporated in order to facilitate student learning, achieve course goals, promote self-directed learning and accommodate diverse learning styles. Please provide representative examples (2-3) employed by faculty within the course which do any one or more of the following: actively engage learners; integrate and reinforce content across the curriculum; provide opportunity for mastery of skills; stimulate higher-order thinking, problem solving, and clinical-reasoning skills; and address/accommodate diverse learning styles.
- 4. Describe how suggestions from student course evaluations and/or the last formal course review have been incorporated (or planned for the future) to improve the course.
- 5. Describe the process for ensuring course content is up to date. Provide examples of topics that have been added, modified or removed since the last formal course review.
- 6. For team-taught courses, describe the process for ensuring consistency of teaching and assessment across multiple instructors.
- 7. Describe the primary strengths of this course.
- 8. Describe the primary weaknesses of this course. What changes should be made to overcome these weaknesses? What support do you need to effect these changes?

Appendix 2: Course Review Rubric

Course Name:	Course Coordinator(s):	Student Class Rank (ex: P1):
Reviewer:	Date:	

Course Design

A. Student learning outcomes (SLOs) are aligne	d with overall curricular goals and mapping is	s complete and up to date
Course Materials Review: Syllabus for course level SLO topic/session mapping	s + curriculum map for individual course	Comments
Meets	Does Not Meet	
☐ Course SLOs are provided in syllabus ☐ Course SLOs are mapped to ACPE and CAPE competencies (or EPAs and PPCP in case of lab course) ☐ Individual course topic/session mapping is complete, updated, and is aligned with course SLOs	☐ Course SLOs are NOT provided in syllabus ☐ Course SLOs are NOT mapped to ACPE and CAPE competencies (or EPAs and PPCP in case of lab course) ☐ Individual course topic/session mapping is NOT complete, updated, and/or aligned with course SLOs	
B. Course level SLOs are specific, measurable, a	nd higher order as appropriate	
Course Materials Review: Syllabus for course level SLO	s + curriculum map	Comments
Meets	Does Not Meet	
 □ Breadth of material covered is appropriate for educating a future pharmacist □ Depth of material covered is appropriate for the student rank 	☐ Breadth of material covered is NOT appropriate for educating a future pharmacist ☐ Depth of material covered is NOT appropriate for the student rank	
C. Course level SLOs are recognized as having b	een covered by learners	
Course Materials Review: Student course evaluation its course"	em "Learning objectives were covered in the	Comments
Meets	Does Not Meet	
☐ Scores ≥ 4	□ Scores < 4	
Course Materials Review: course learning outcomes +	individual course topic/session objectives	Comments
Meets	Does Not Meet	
☐ Course learning outcomes are clearly stated in the syllabus ☐ SLOs are clearly stated in the handouts and/or slides for each topic	☐ Course learning outcomes are NOT clearly stated in the syllabus ☐ SLOs are NOT clearly stated in the handouts and/or slides for each topic	

D. Course description, instructional method, pre of Pharmacy bulletin and student information		abus match that present within the College
Course Materials Review: Course syllabus + College of	Pharmacy Academic Bulletin + SIS	Comments
Meets ☐ Course description in syllabus matches that found in official academic bulletin ☐ Prerequisites in syllabus match those found in official academic bulletin ☐ Credit hours listed in syllabus match that found in official academic bulletin and course meeting according to schedule ☐ Instructional method utilized matches that which is listed in SIS E. Pedagogical strategies facilitate student lear	Does Not Meet ☐ Course description in syllabus does NOT match that found in official academic bulletin ☐ Prerequisites in syllabus do NOT match those found in official academic bulletin ☐ Credit hours listed in syllabus do NOT match that found in official academic bulletin and course meeting according to schedule ☐ Instructional method utilized does not match that which is listed in SIS ning	
Course Materials Review: Student course evaluation its learning"	em "Assignments contributed significantly to	Comments
Meets	Does Not Meet	
☐ Scores ≥ 4	☐ Scores < 4	
Course Materials Review: Course coordinator question	naire (question 3) + provided samples	Comments
Meets	Does Not Meet	
☐ Pedagogical strategies employed facilitate student learning (should include active learning strategies, strategies that facilitate critical thinking, engagement with the material, etc.)	☐ Pedagogical strategies need improvement to facilitate student engagement with material	
F. Outside support is available to learners		
Course Materials Review: Student course evaluation it opportunities to interact with the professor in this cou		Comments
Meets	Does Not Meet	
☐ Scores ≥ 4	☐ Scores < 4	
Course Materials Review: syllabus for preferred course system (LMS) for supporting materials (ex: outlines, h		Comments
Meets ☐ Preferred course communication methods are provided for students within syllabus ☐ Content provided to students via LMS appears adequate to support learning	Does Not Meet ☐ Preferred course communication methods not provided within syllabus or stated communication method not utilized, not made available, or ineffectively utilized ☐ Insufficient/inadequate content provided to students via LMS to support their learning	

G. Course design and organization are conducive	e to learning	
Course Materials Review: Student course evaluation it	em "I rate this course overall as"	Comments
Meets	Does Not Meet	
☐ Scores ≥ 4	□ Scores < 4	
Course Materials Review: syllabus for format and sche artifacts for further evaluation of course format	dule of topics + individual course session	Comments
Meets	Does Not Meet	
☐ Overall course format is optimal for student learning of this material (e.g. sufficient opportunity for practice or skills and discussion of concepts to facilitate learning) ☐ Topics are organized logically (e.g. material flows and/or builds between topics)	☐ Overall course format is NOT optimal for student learning of this material ☐ Topics are NOT organized logically	
H. Course content is current and a plan for cont	inuous update and quality improvement exist	ts
Course Materials Review: Course coordinator question	naire (questions 4, 5, 6)	Comments
Meets Course coordinator questionnaire describes each of the following adequately: ☐ How suggestions from student course evaluations and/or the last formal course review have been incorporated to improve the course ☐ A process for ensuring course content is up to date ☐ A process for ensuring continuity and coordination between instructors (if a team-taught course)	Does Not Meet Course coordinator questionnaire does NOT describe each of the following adequately: ☐ How suggestions from student course evaluations and/or the last formal course review have been incorporated to improve the course ☐ A process for ensuring course content is up to date ☐ A process for ensuring continuity and coordination between instructors (if a team-taught course)	
I. Course placement within overall curriculum i		
Course Materials Review: Course coordinator question within overall curriculum	naire (question 1) + review of course placement	Comments
Meets Course coordinator questionnaire describes each of the following adequately and answers supported by review of overall curriculum: ☐ How the course builds upon preceding courses ☐ How the course supports subsequent courses ☐ How the course applies to the skills necessary for an entry-level pharmacist	Does Not Meet Course coordinator questionnaire does NOT describe each of the following adequately and answers NOT supported by review of overall curriculum: ☐ How the course builds upon preceding courses ☐ How the course supports subsequent courses ☐ How the course applies to the skills necessary for an entry-level pharmacist	

Assessment of Student Learning

A. Grading is explained to learners		
Course Materials Review: Student course evaluation iter	n "Grading system was adequately explained"	Comments
Meets	Does Not Meet	
☐ Scores ≥ 4	□ Scores < 4	
Course Materials Review: syllabus – grading policies		Comments
Meets	Does Not Meet	
\square Grading policy is clearly stated in the syllabus	\square Grading policy is NOT stated in the syllabus	
☐ Grading scale is clearly stated in the syllabus and	\Box Grading scale is NOT stated in the syllabus or not	
congruent with faculty approved grading scale as per Bulletin	congruent with faculty approved grading scale	
B. Assessments were appropriately discriminator	y (when multiple choice exams used in course)
Course Materials Review: Item analysis (when multiple		Comments
Meets	Does Not Meet	
$\ \square$ 75% or more of test questions had a high percent correct (i.e. 50% correct) and/or good discriminatory value (i.e. point biserial ≥ 0.2)	\square > 25% of test questions had low percent correct and/or low point biserials	
C. Assessments determine the mastery of SLOs		
Course Materials Review: Student course evaluation iter the course content"	n "The graded activities assessed my mastery of	Comments
Meets	Does Not Meet	
☐ Scores ≥ 4	☐ Scores < 4	
Course Materials Review: Exam questions (or any other ACPE and CAPE competencies (or EPAs and PPCP in case		Comments
Meets	Does Not Meet	
Exam questions (or other assessment tool) are: ☐ Mapped to ACPE and CAPE (or EPAs and PPCP) ☐ Appropriate for level (introduce, reinforced, practiced)	Exam questions (or other assessment tool) are: ☐ NOT mapped to ACPE and CAPE (or EPAs and PPCP) ☐ NOT appropriate for level (introduce, reinforced, practiced)	

D. Assessments were adequate in number and til	med appropriately	
Course Materials Review: Student course evaluation iter the feedback that you received in this course?"	m "How satisfied were you with the promptness of	Comments
Meets	Does Not Meet	
☐ Scores ≥ 4	□ Scores < 4	
Course Materials Review: syllabus – topical outline; Assetime allotment	essments – number, number of questions, and	Comments
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