

UNIT REPORT

**Pharmaceutical Sciences (PhD) -
Reviewer's Report - Academic Data**

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Pharmaceutical Sciences (PhD)

College of Pharmacy Mission Statement

Mission:

The College promotes the health and welfare of the citizens of Florida and the Nation by preparing graduates in Pharmacy to take independent professional responsibility for the outcome of drug therapy in patients. Graduates have the scientific and cultural background necessary to assume leadership roles in the profession and the community. Additionally, the College:

- Promotes and fosters graduate education in pharmaceutical, clinical, administrative and psychosocial sciences. Its students are educated to become distinguished contributors to pharmacy and related disciplines.
- Provides faculty members the opportunity to develop fully as teachers and scholars.
- Supports development of quality research programs, which serve to advance the knowledge and skills of pharmacists, other health care professionals and the associated scientific community.
- Encourages leadership for the continuing professional growth and development of Pharmacy in Florida, nationally, and internationally.
- Cooperates in a service capacity with other institutions in the provision of specialty advanced training, as well as with the state and the profession in areas where the College Faculty possess unique expertise.
- Offers opportunities for practicing pharmacists to maintain and enhance their competencies for professional practice.

Start: 07/01/2017**End:** 06/30/2018

2017-18 PG 1 Basic Knowledge/Skills/Training

Goal: To provide quality and breadth of classroom teaching in Pharmaceutical Sciences, including research skills training.**Evaluation Method:**

Assessment of the students' successful completion of required courses, successful progression through qualifying exams and final exams, and successful progression in the degree program as reported in the students' annual evaluations.

Results:

The Pharmaceutical Sciences PhD program had 19/19 graduate students successfully defend and submit their final dissertation to the University in the 2017-18 year and complete the degree program. Additionally, 18/18 PhD students successfully passed their qualifying exams. One of these qualifying exams was a retake from a previous failure.

XOn Campus: true**XProgram CIP:** 51.2099**XOnline:****XOther Site:****XIf Other Site:**

2017-18 PG 2 Research

Goal:

To provide broad opportunities ranging from basic to clinical translational research training to design, perform, and interpret sophisticated research related to Pharmaceutical Sciences.

Evaluation Method:

Students are expected to participate in the Annual Research Showcase, present in local, national, and international conferences, submit manuscripts to peer-reviewed journals, and attend all Journal Club, departmental, and College seminars. Current students will present and be evaluated in at least one departmental seminar presentation per year.

Results:

76/98 (78%) PhD students presented in their departmental seminars in 2017/18.

XOn Campus: true**XProgram CIP:** 51.2099**XOnline:****XOther Site:****XIf Other Site:**

2017-18 PG 3 Employment Skills

Goal: To provide training in the skills necessary for employment acquisition.**Evaluation Method:**

Review the employment rate after graduation (exit interview) in fields relating to Health Sciences.

Results:

Of the 19 PhD graduates in 2017-18, we received exit interviews for 12. Of those 12:

11/12 (91.7%) are involved in research/development,

8/12 (66.7%) are employed in an academic setting

12/12 (100%) are employed in a science/health science field.

XOn Campus: true

XProgram CIP: 51.2099

XOnline:

XOther Site:

XIf Other Site:

2017-18 PG 4 Recruitment

Goal:

To seek and recruit students of outstanding quality, from both national and international pools of applicants, and increase diversity in our graduate program.

Evaluation Method:

Review the number of applicants, admissions offers, and matriculation rates, including the URM percentage rates.

Results:

	Applicants	Admissions Offers	Matriculates
Total	183	31	18 (58.1%)
URM population	13	6	4 (66.74%)

XOn Campus: true

XProgram CIP: 51.2099

XOnline:

XOther Site:

XIf Other Site:

2017-18 SLO 1 Knowledge

Outcome:

Identify, interpret, and utilize core knowledge across the spectrum of Pharmaceutical Sciences as it relates to the student's research. At the most advanced level, this will include interpreting experimental data and designing experiments.

SLO Area (select one): Knowledge (Grad)

Assessment Method:

Discipline-specific comprehensive knowledge is assessed in two examinations: an oral qualifying exam and a final dissertation defense. These examinations are scheduled to occur at an appropriate time in the student's program. All examinations are constructed by members of the student's supervisory committee and graded according to a standard College rubric as unsatisfactory, competent, or excellent.

SLO Not Assessed This Year:

Results:

In 2017-18, 19 PhD students defended their final dissertation. Under the Knowledge category, 18 scored an Excellent, 1 scored Competent, 0 scored Unsatisfactory. This is a 100% passing rate.

In 2017-18, 18 PhD students completed their oral qualifying exam. Under the Knowledge category, 13 scored an Excellent and 5 scored a Competent, 0 scored Unsatisfactory. This is a 100% passing rate.

Start: 07/01/2017

End: 06/30/2018

Threshold of Acceptability: 80

How many students did you assess for this outcome?: 37

How many students met the outcome?: 37

What percentage of students met the outcome?: 100

Does this meet your threshold of acceptability?: Yes

2017-18 SLO 2 Problem Solving/Critical Thinking

Outcome:

Apply discipline- and research project-related knowledge to complete the student's dissertation research by formulating hypotheses, designing experiments, interpreting results, and forming conclusions from their experiments.

SLO Area (select one): Knowledge (Grad)

Assessment Method:

Problem solving skills will be assessed at the qualifying examination, committee meetings of the student, and ultimately at the dissertation defense according to the standard College rubric.

SLO Not Assessed This Year:

Results:

In 2017-18, 19 PhD students defended their final dissertation. Under the Problem-Solving category, 17 scored an Excellent, 2 scored Competent, 0 scored Unsatisfactory. This is a 100% passing rate.

In 2017-18, 18 PhD students completed their oral qualifying exam. Under the Problem-Solving category, 12 scored an Excellent and 6 scored a Competent, 0 scored Unsatisfactory. This is a 100% passing rate.

Start: 07/01/2017

End: 06/30/2018

Threshold of Acceptability: 80

How many students did you assess for this outcome?: 37

How many students met the outcome?: 37

What percentage of students met the outcome?: 100

Does this meet your threshold of acceptability?: Yes

2017-18 SLO 3 Research Skills

Outcome:

Utilize the scientific method to formulate hypotheses based on their ability to use the literature, their own experimental observations, and those of others; design a technically sound and up-to-date experimental plan with appropriate controls; execute the experimental plan in a technically proficient manner; interpret the data; reformulate the hypotheses.

SLO Area (select one): Skills (Grad)

Assessment Method:

Students will prepare a research presentation for the College's annual Research Showcase. Presentations will be reviewed by faculty members, both from the College of Pharmacy and from other external UF departments.

SLO Not Assessed This Year:

Results:

Of the 70 PhD students eligible to participate in the Research Showcase, 8 were chosen to present their research in the oral competition. Additionally, 38 presented a poster. 46/70 (65.7%) participated.

Start: 07/01/2017

End: 06/30/2018

Threshold of Acceptability: 60

How many students did you assess for this outcome?: 70

How many students met the outcome?: 46

What percentage of students met the outcome?: 66

Does this meet your threshold of acceptability?: Yes

2017-18 SLO 4 Professional Behavior

Outcome:

Exhibit behaviors and values that are consistent with ethical standards in research appropriate to safety, administrative, and regulatory rules. Professionalism, safety and adherence to regulations will be monitored by the student's mentor.

SLO Area (select one): Professional Behavior (Grad)

Assessment Method:

Professionalism will initially be assessed via students' ability to work on team-based activities in the required Intro to Grad Studies course, taken by all first year students. Professionalism, safety and adherence to regulations will be monitored by the student's supervisory committee and departmental faculty across all settings: coursework, journal clubs and seminars, and within the research setting. Professionalism will be reported and tracked through the Annual Student Evaluations.

SLO Not Assessed This Year:

Results:

Of the 71 Annual Student Evaluations received from faculty advisors, all 71 students received positive feedback in the Professionalism category. This is expected for all PhD students in the College of Pharmacy.

Start: 07/01/2017

End: 06/30/2018

Threshold of Acceptability: 100

How many students did you assess for this outcome?: 71

How many students met the outcome?: 71

What percentage of students met the outcome?: 100

Does this meet your threshold of acceptability?: Yes

2017-18 SLO 5 Professional Presentations

Outcome:

Deliver a formal scholarly presentation of his or her original research results in oral and written formats at an internal academic review. These presentations will be clear in providing information at an appropriate level to the audience, complete in providing the necessary and relevant background from the literature, and will utilize appropriate audiovisual aids that are clearly constructed. Prior to completion of the program, each student will be required to give at least one formal seminar at the College level and present at least one oral or poster presentation at a national or international level.

SLO Area (select one): Professional Behavior (Grad)

Assessment Method:

Oral and written presentation behaviors will be continually assessed by the student's primary adviser, the student's committee, and all associated faculty who contact the student during presentations such as departmental seminars, research conferences, qualifying examinations, and the final defense. The student's communication and presentation skills will be formally evaluated at the oral qualifying exam and final dissertation defense, and graded using the standard College rubric.

SLO Not Assessed This Year:

Results:

In 2017-18, 19 PhD students defended their final dissertation. Under the Communication evaluation, 15 scored an Excellent, 4 scored Competent, 0 scored Unsatisfactory. This is a 100% passing rate.

In 2017-18, 18 PhD students completed their oral qualifying exam. Under the Communication evaluation, 12 scored an Excellent and 6 scored a Competent, 0 scored Unsatisfactory. This is a 100% passing rate.

Start: 07/01/2017

End: 06/30/2018

Threshold of Acceptability: 80

How many students did you assess for this outcome?: 37

How many students met the outcome?: 37

What percentage of students met the outcome?: 100

Does this meet your threshold of acceptability?: Yes

2017-18 Programmatic Use of Results

Program: Pharmaceutical Sciences (PhD)

Programmatic Use of Results:

While the overall assessment of the College of Pharmacy PhD program yielded positive results, the following adjustments will be made:

The College does not currently have a consistent method of delivery of a literature-review course across all five departments. The Graduate Studies Committee will discuss the creation of a College-wide Journal Club class for all departments to utilize. A College-wide course will provide an opportunity for the student to be evaluated on their literature review skills. This action item will be added to the November 2018 agenda.

Student participation in departmental seminars is required. However, some students were not able to present in 2017-18 due to cancellations, guest speakers, other College events, etc. All students that did not fulfill the presentation requirement for 2017-18 will be required to present first in the 2018-19 year.

Low matriculation rates for the PhD program were expected for 2017-18 due to an increased focus on recruiting high performing American students, including URM populations. The COP PhD program will continue to work with our marketing team to reach high quality American applicants through email lists, graduate school fairs, and ensuring quick response rates to all communications. The College has also distributed a survey to the Fall 2018 cohort to collect feedback on the recruitment and admissions processes. This data is still being collected and will be analyzed by the Graduate Studies Committee.

Program Results Not Reported This Year:

2017-18 Academic Assessment Plan Detail Item

End: 06/30/2018

Start: 07/01/2017

Providing Department: Pharmaceutical Sciences (PhD)

Assessment Cycle (All AAPs):

Data Collection and Analysis will occur every Fall for every SLO. Submission of College Assessment Plan by November 1 of each year. Results will be shared with the Graduate Studies Committee at the November meeting and modifications to the program will be instituted per the committee's recommendations.

SLO Assessment Rubric (All AAPs):

	Excellent (3)	Competent (2)	Unsatisfactory (1)
Knowledge			
Problem-Solving			
Communication			

Research (Graduate and Professional AAPs only):

The College of Pharmacy graduate program is research-intensive. PhD students maintain constant contact with their faculty advisor regarding their research and course of study. Students are assessed in their progress through annual student evaluations, coursework, qualifying exams, and final dissertation defenses.

Measurement Tools (Graduate and Professional AAPs Only):

The PGs and SLOs are assessed throughout the graduate program at research presentations, departmental and College seminars, qualifying exams, final dissertation defenses, and through required coursework.

Respective rubric assessment results, student, and program data are manually entered and tracked by the Graduate Programs team. Salesforce has been implemented by the Graduate Programs team for internal tracking and record keeping. Further exploration of the Salesforce platform is needed to develop an electronic submission process for assessment results, removing the need for tedious manual data entry.

Assessment Timeline (Graduate and Professional AAPs only):

Each student's progress is continually assessed throughout his/her course of study, culminating with a final dissertation defense.