

# **Graduate Program in Pharmaceutical Sciences Master's Degree Learning Goals and Assessment**

**May 10, 2015**

The Graduate Program in Pharmaceutical Sciences trains Master of Science students at an advanced level in those aspects of life sciences related to pharmaceutical sciences.

## **Learning Goal 1 for Students: Attain mastery of the essential aspects of practice and research in the field of pharmaceutical sciences**

Assessment of student achievement of Goal 1:

- Grades in graduate courses
- Review by faculty of student progress with close advising and mentoring
- Comprehensive examinations assessing depth and breadth of knowledge or a capstone paper or project of a research thesis
- Assessment of student's performance by committee of graduate faculty members
- Continuation of graduate studies or placement in a professional position that requires an understanding of the practices of pharmaceutical sciences, as well as competency in the technical aspects of performing the work associated with pharmaceutical sciences.
- Placement in a career or continuation of graduate studies that require ability in pharmaceutical sciences

Roles of the program in helping students to achieve Goal 1:

- Close advising to assure that students are being prepared in a coherent and academically precise way
- Effective monitoring of student progress
- Evaluations of teaching effectiveness of instructors in graduate courses
  - If effectiveness is below expectations, work with instructors to improve effectiveness
- Periodic review of curricular offerings and assessment tools
  - By program faculty
  - In consultation with the office of the dean of the graduate school and/or the unit dean

## **Learning Goal 2 for Students: Engage in and conduct original research (for Master's degree with thesis)**

Assessment of graduate student achievement of Goal 2:

- Assessment of quality of Master's thesis
  - Public defense of thesis
  - Critical reading of thesis by committee of graduate faculty members
  - Submission and acceptance of peer-reviewed articles and conference papers
- Achievement of students as evidenced by continuation of graduate studies or professional placement.

Role of the program in helping graduate students to achieve Goal 2:

- Provide early introduction to research methods and opportunities for research
- Provide opportunities to present research and receive feedback
- Provide comprehensive advising and assist in the identification of mentors

### **Learning Goal 3 for Students: Prepare to be professionals in pharmaceutical sciences**

Assessment of graduate student achievement of Goal 3:

- Participation in internships and other work tailored to career goals, assessed accordingly
- Collection of data on professional placement data or continuation of graduate studies
- Review by external advisory committees, both inside of and external to the academy.

Role of the program in helping students achieve Goal 3:

- Host professional development and career exploration activities
- Develop internship opportunities
- Host external advisory committees

**The leadership of the Pharmaceutical Sciences graduate program** will regularly review the structure and content of the program and the feedback received from assessments and surveys. These reviews will be used to provide the best possible education to students that meet current needs for professionals in pharmaceutical sciences.