Assessment Activities
Pharmaceutical Sciences

University Assessment Goals	*Program Outcomes*	*Assessment Procedures and Criteria*	*Assessment Results*	*Use of Assessment Results/Change*
1. **Graduates will demonstrate disciplinary competence and/or professional proficiency.**	Graduates will master the key concepts in the discipline of their interest in pharmaceutical sciences. Graduates will be able to work independently or in collaboration with others in their area of expertise as an investigator. Student will be prepared for a career in science through class room learning seminars, independent research and a thesis to become independent scientists.	Students are required to exhibit competency in each didactic course by acquiring a minimum of "B" grade. Students are expected to review the literature and provide the criticism. Students are required to independently chose a thesis project, work on the project to prove the hypothesis and defend the thesis in an open forum. The ability to think independently and work in the area of their research interest forms the basis of the thesis.	Foreign applicants upon entering the program have a minimum of first division rank and average GRE scores of 1250. Minimum GPA for entering the Pharm. D. /M.S. program is 3.5. The graduates are able to develop a hypothesis, design experiments to prove the hypothesis and be able to interpret and discuss results independently. To date, 29 students have graduated.	The career paths of previous graduates are monitored to assess the success of the program. Acceptance into a Ph.D. program or employment in industry, academia, or a drug regulatory agency. Most of the previous graduates have either joined a Ph.D. program or are employed in industry or a major academic institution. The weaknesses of the Graduates are monitored during thesis defense to assess the requirements for the program. A total of 5 students graduated last year of whom 4 have joined the Ph.D. programs at the University of Minnesota, University of Houston, Purdue University and Mercer University in Pharmaceutics. The literature evaluation and presentation courses are expected to address the perceived deficiencies in critical thinking and literature evaluation skills in some graduates. This would also improve the communication skills.
2. Graduates will demonstrate critical thinking skills.	Graduates will develop problem solving skills.	Students will be assessed by Thesis defense and by attending a series of seminars to determine their abilities to become a semi-independent investigator. Furthermore, their ability for literature evaluation and presentation are assessed in Pharmaceutical Sciences Discussion Series (MPS 792) and Pharmaceutical Sciences	Graduates given an unfamiliar situation will be able to comprehensively address the situation by suggesting the possible avenues to solve to problem	Offering of new electives to strengthen the critical thinking skills Four new courses were introduced to develop the critical thinking skills in the students. Pharmaceutical Sciences Discussion series (MPS 792) and Pharmaceutical Sciences Presentation Series (MPS 793)

		Presentation Series (MPS 793).		develop skills for the critical evaluation of the data.
3. **Graduates will demonstrate Ignatian values, to include but not limited to a commitment to an exploration of faith and the promotion of justice.**	The graduate will demonstrate honesty, integrity, ethical understanding, respect for others, and will be model citizens. Graduates will carry out their professional responsibilities by adhering to high ethical standards and will exhibit sensitivity to ethnicity, gender and diversity. All students are required to take a course in "Ethical conduct in research"	The students learn about scientific integrity, issues in ethics and data, ownership issues, ethics of record keeping, tools of the trade, ethical aspects of human and animal research, integrity in authorship and peer review, the mentor/trainee relationship, conflict of interest/commitment, suspicion of misconduct, and ethics of genetics research.	The graduates will have familiarity of Judeo-Christian values and the application of it values in science and daily life. The graduates will recognize the issues and topics related to ethics in basic research. The graduates will analyze the ethical dilemmas in cutting edge research.	
4. Graduates will demonstrate the ability to communicate clearly and effectively.	The graduates will demonstrate excellent interpersonal oral communication and writing skills. This will allow effective exchange of professional information.	Writing research papers and thesis. The students have the ability to write hard science manuscripts.	Students will be evaluated by their graduate advisory committee based on the oral and written presentation of their thesis. Students will be evaluated by the major advisor based on their ability to write manuscripts independently for publication in a peer reviewed journal.	More intensive scientific writing as a part of didactic courses. The writing of manuscripts for publications.
5. **Graduates will demonstrate deliberative reflection for personal and professional formation.**	Laboratory rotations allow initial personal and professional development.	The students are assessed based on their hands on performance in individual laboratories.		The students chose a laboratory for their thesis project.
6. Graduates will demonstrate the ability to work effectively across race, ethnicity, culture, gender, religion, and sexual orientation.	A large number of international students in the program allow the students to work effectively in a diverse environment.			