

Ph.D. in Pharmaceutical Sciences Program at the DKICP

Learning expectations are articulated in the Graduate Program Outcomes (GPOs) listed below:

GPO 1: Graduate students will **have** and be able to demonstrate/**apply** advanced knowledge in specialized areas defined by the PhD. in Pharmaceutical Sciences Program.

GPO 2: Graduate students will **have** and be able to demonstrate/**apply** skills to collect and integrate information in ways consistent with the highest standards of their discipline.

GPO 3: Graduate students will **have** and be able to demonstrate/**apply** skills in appropriate methods of experimental analysis, whether quantitative or qualitative.

GPO 4: Graduate students will **conduct research** that results in an original contribution to knowledge, according to the standards of their discipline, including as appropriate, both independent and collaborative research.

GPO 5: Graduate students will be **knowledgeable in-** and be able to **demonstrate-** research techniques and procedures in compliance with all standards for **responsible conduct of research (RCR)**.

GPO 6: Graduate students will **have** and be able to **demonstrate** skills in **scholarly communication**, applied in oral, text, and digital formats consistent with the highest standards of their discipline.

GPO 7: Graduate students will conduct their research, and engage with their peers and supervisors with **professionalism** taking into account all legal and ethical dimensions of their endeavors.

GPO 8: Graduate students may participate in **teaching (pedagogy)** and apply their skills in the classroom consistent with disciplinary norms.

Requirements for the Ph.D. in Pharmaceutical Sciences Program	GPO 1	GPO 2	GPO 3	GPO 4	GPO 5	GPO 6	GPO 7	GPO 8*
<p>*emphasized/encouraged</p> <p>(I = Skill Introduced; P = Practiced; D = Demonstrated mastery)</p>	Advanced Knowledge	Methods – Collect and integrate information	Methods-Data analysis	Research – independent and collaborative	RCR	Scholarly communication	Professionalism	Pedagogy
Pedagogy for Graduate Assistants (encouraged*)						I/P	I/P	I/P
Lab rotation	I/P	I/P	I/P	I/P	I/P	I/P	I/P	
Comprehensive Exam	D	P	P			P		
Research Seminar/Research Symposium	D	D	D	D		D	D	
Ph.D. proposal Defense	D	D	D	D		D	D	
Dissertation Research	D	D	D	D	D	D	D	
Responsible Conduct of Research (RCR) Training					I/P	P	P	
Academic grant writing (emphasized*)	P	P	P	P	D	P	P	
Professional conference participation (emphasized*)	P	P	P	P		P	P	
Academic publishing	D	D	D	D	D	D	D	
Dissertation	D	D	D	D	D	D	D	