

## School of Pharmacy

### Academic Program Student Learning Outcomes

Program Description	Program Degree	Student Learning Outcomes
<b>GLOBAL CLINICAL AND PHARMACOVIGILANCE REGULATIONS</b>	<b>MS</b>	The student will understand: the need for pharmacovigilance regulations; the evolution of pharmacovigilance regulations; domestic and international requirements and regulations for healthcare products; differences in regulations between product types and regions; pharmacovigilance data throughout the product life cycle; pharmacovigilance quality management systems and preparation for pharmacovigilance inspections; key concepts and rationales for signal management for healthcare products throughout their life cycles; key concepts and rationales for benefit risk assessments for healthcare products throughout their life cycles. The student will be able to conceptualize and interpret safety data. The student will be familiar with pharmacovigilance terminology and key stake holders.
<b>GLOBAL PHARMACOVIGILANCE BENEFIT-RISK MANAGEMENT</b>	<b>GRAD</b>	Students should understand the need for pharmacovigilance regulations;
		Students should understand the evolution of pharmacovigilance regulations
		Students should understand the domestic and international pharmacovigilance requirements and regulations for healthcare products
		Students should understand the differences in regulations between product types and regions
		Students should be able to contextualize and interpret safety data
		Students should be familiar with pharmacovigilance terminology and stakeholders
		Students should understand the pharmacovigilance quality management system and preparation for pharmacovigilance inspections
<b>PHARMACEUTICAL SCIENCES</b>	<b>MS</b>	1: Think critically and solve complex scientific problems.
		2: Read, analyze, and explain research presented in publications and seminars and synthesize scientific presentations and publications.
		3: Conduct high-quality research (i.e., publishable in peer-reviewed journals).
		4: Communicate research results effectively verbally and in writing.
<b>PHARMACEUTICAL SCIENCES</b>	<b>PHD</b>	1: Think critically & solve complex scientific problems.
		2: Read, analyze, and explain research presented in publications and seminars and synthesize scientific presentations and publications
		3: Demonstrate the ability to conceive and conduct scientific research (e.g., develop hypotheses and alternatives, unique or novel methods, measurements or analysis).
		4: Communicate research results effectively verbally & in writing.
		5: Make rational, ethical, and responsible decisions in conducting research.
<b>PHARMACY</b>	<b>DPH</b>	1: Think critically and solve complex problems.

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### Academic Program Student Learning Outcomes

Program Description	Program Degree	Student Learning Outcomes
PHARMACY (CONT'D)	DPH (CONT'D)	2: Communicate effectively verbally and in writing
		3: Demonstrate interpersonal skills and a professional demeanor.
		4: Make rational, legal, ethical and responsible decisions.
		5: Demonstrate sensitivity and tolerance of the cultural, societal and economic diversity in patients.
		6: Assume responsibility for optimizing patient outcomes related to medication therapy
		7: Maintain professional competency by self assessing learning needs to design, implement and evaluate strategies to promote intellectual growth and continued professional development.
		8: Design, implement, monitor, evaluate, and adjust evidence based pharmacy care plans that are patient specific; address health literacy, cultural diversity, behavioral and psychosocial issues. (There are 11 enabling objectives associated with this competency)
		9: Provide population-based care, by participating in and contributing to the development of population specific, evidence-based: 1) formulary management decisions, 2) disease management programs and protocols, 3) criteria for medication use reviews, 4) risk reduction strategies that are based upon analysis of clinical, epidemiologic and pharmaco-economic data.
		10: Evaluate medication use systems, to minimize drug misadventures and optimize patient outcomes by applying patient- and population-specific data, quality improvement strategies, medication safety and error reduction techniques.
		11: Manage and use resources to provide, assess, and coordinate safe, accurate, and time-sensitive medication distribution and administration to optimize therapeutic outcomes associated with the use of medications. (There are 5 enabling objectives under this competency)
		12: Promote health improvement, wellness, and disease prevention in cooperation with patients, communities, at-risk populations, and other members of an interprofessional team of health care providers.
		13: Identify and explain how human, financial and physical resources are utilized to optimize the medication use process and to implement innovative pharmacy services.