

# DRUG DISCOVERY & DEVELOPMENT GRADUATE CERTIFICATE

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Students will be introduced to the field of Drug Discovery and Development by content expert faculty at the Philadelphia College of Pharmacy. This graduate certificate will allow students to gain insight into the process of drug discovery and development with a focus on biopharmaceutics, pharmacology, medicinal chemistry, with a choice of concentration in regulatory affairs, preclinical and clinical pharmacology and clinical toxicology associated with drugs.

## Learning Goals and Outcomes

**Outcome #1:** Students will demonstrate knowledge in the field of Drug Discovery and Development by applying and integrating concepts in molecular pharmacology, clinical toxicology, medicinal chemistry and drug discovery and drug development to real life and clinically applicable problems.

**Outcome #2:** Students will gain insight into the process of drug discovery and development with hands on training validation, screening of potential candidates, ADME, biopharmaceutics, virtual reality technology (VR) to experience receptor-ligand.

**Outcome #3:** Students will engage in written and communications related to Drug Discovery and Development through engaging discussions with faculty and guest lecturers in the Pharmaceutical Sciences Industry.

## Requirements

Code	Title	Hours
PHS 703	Pharma & Biopharmaceutics I	3
PHT 802	Advanced Pharmacology	3
PHS 804	Intro Drug Discovery and Dev	3
Choose one of the following:		3
PHS 860	Reg Issues in Pharma	
PHT 805	Pharmacology in Drug Discovery	
PHT 807	Tox Subst Use Disorder (Appld)	
<b>Total Hours</b>		<b>12</b>