

# DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY M.S.

The Master of Science (MS) program in **Drug Development and Industrial Pharmacy (DDIP)** at the historic Philadelphia College of Pharmacy (PCP) at Saint Joseph's University provides you with the experience necessary to learn the science and practice of how drug delivery systems are developed. Working one-on-one with expert faculty, the students will gain insight and foresight as they uncover new areas of research in our state-of-the-art laboratories in the pharmaceuticals graduate program. Program classes are offered on a flexible schedule from our University City campus. An advanced degree such as MS in DDIP at PCP provides the knowledge and network for rewarding careers in the pharmaceutical and healthcare industry. The Philadelphia College of Pharmacy is in the heart of the biotechnology and health science industry, surrounded by 250 medical facilities and within two hours of 75% of all U.S. pharmaceutical and biotechnology companies. The city's diverse population and variety of health science employers offers the unique opportunity to gain experience in pharmaceutical research. This program provides the graduates with a strong foundation in pharmaceuticals during the first half of the study. The second half of the program is focused on industrial pharmacy with a strong laboratory component and hands on experience in all areas. The program enables the graduates to have strong communication skills, professional training and will prepare them for a career in pharmaceutical industry in a variety of roles.

## Learning Goals and Outcomes

### Learning Outcomes

**Outcome 1:** Solid knowledge foundation and critical evaluation of scientific literature

**Outcome 2:** Effective and accurate oral communication of scientific research

**Outcome 3:** Critical data analysis with appropriate statistical methods

**Outcome 4:** Demonstrate and acquire good laboratory practices

**Outcome 5:** Acquires solid pharmaceuticals principles and hands on to be work ready day 1

**Outcome 6:** Personal development/leadership/teamwork

## Requirements

Code	Title	Hours
PHS 890	Pharmaceutics Seminar	1
PHS 709	Pharm-Biopharmaceutics II	3
PHS 714 & 714L	Advanced Pharma Analysis and Advanced Pharma Analysis Lab	3
PHT 750	Research Ethics and Conduct	3
PHS 751	Advanced Pharmaceutics	3
or PHS 851	Advanced Pharmaceutics	
PHS 760	Reg Issues in Pharma	2
or PHS 860	Reg Issues in Pharma	
PHS 763	Res Proj in Drug Dev & Ind Pha	3
PHS 763	Res Proj in Drug Dev & Ind Pha	3
Choose 9 Credits below or other electives PHS, PHT or other 700,800:		9

PHS 704	Intro Drug Discovery & Dev
PHS 761	Pharmaceutical Product Dev
PHS 762	Pre-formulation and Phys Pharm
PHS 895	Analysis of Current Literature
PHT 752	Intro Scientific Data Analysis
<b>Total Hours</b>	<b>30</b>