

Pharmaceutical Management

Students will understand the role of the pharmaceutical industry in the global market and its implications; learn the fundamentals of the drug development cycle and the investment required to bring a drug to market, and learn the most important drug manufacturing processes and the key elements of dosage formulation. Special emphasis is placed on the project, quality, and financial management aspects of the pharmaceutical business.

Who is suited for this program?

The interdisciplinary Certificate in Pharmaceutical Management is designed to provide the students with an overview of the pharmaceutical industry, including information about drug discovery and development, FDA requirements, approval processes and the methodologies used by industry to comply with these regulations, drug dosage forms, and the role of key operational units in drug manufacturing processes.

What will I learn?

- Principles of Pharmaceutical Engineering: Overview of the pharmaceutical industry
- Validation and Regulatory Issues in the Pharmaceutical Industry with Information about drug discovery and development, FDA regulations, approval process and methodologies used by industry to comply with these regulations, drug dose forms, and the role of key operational units in drug manufacturing processes

A broad range of electives covering

- Packaging and other specific issues that could be bottlenecks for contemporary pharmaceutical management
- Competing in Global Markets: The role of the pharmaceutical industry in the global market and its implications
- Financial Management, Project Management, Project Control, Total Quality Management: These elective overview project, quality, and financial management aspects of the pharmaceutical business

Why study Pharmaceutical Management at NJIT?

NJIT recognizes pharmaceutical leaders' need for strong management to sustain the creation, storage and maintenance of databases of biological information in order to support drug discovery development.

Prerequisites

An undergraduate degree in a science or engineering field, with an undergraduate cumulative grade point average (GPA) of at least 2.8 on a 4.0 scale is usually required. Applicants with: (1) a science degree, (2) an engineering degree in a discipline other than chemical or mechanical engineering, or (3) a GPA below 3.0 but at least 2.8, may be conditionally admitted to the program. Conditions may involve completion of a bridge program designed on a case-by-case basis.

Related Degree Programs

All credits for the Pharmaceutical Management graduate certificate can be applied in its entirety to the NJIT MS in Pharmaceutical Engineering (<https://catalog.njit.edu/graduate/newark-college-engineering/chemical-materials-engineering/pharmaceutical-ms/>).

What are the Required Courses?

Code	Title	Credits
Core Course		6
PHEN 601	Principles of Pharmaceutical Engineering	3
PHEN 604	Validation and Regulatory Issues in the Pharmaceutical Industry	3
Electives		
Select two of the following:		6
EM 636	Project Management	3
EM 637	Project Control	3
IE 673	Total Quality Management	3
PHEN 618	Principles of Pharmacokinetics and Drug Delivery	3
PHEN 605	Pharmaceutical Packaging Technology	3
PHEN 725	Independent Study	3