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 are the Required Courses?

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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>PHEN 601</td>
<td>Principles of Pharmaceutical Engineering</td>
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<tr>
<td>PHEN 604</td>
<td>Validation and Regulatory Issues in the Pharmaceutical Industry</td>
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Electives

Select two of the following:

- EM 636 Project Management
- EM 637 Project Control
- IE 673 Total Quality Management
- PHEN 605 Pharmaceutical Packaging Technology
- PHEN 698 Special Topics in Pharmaceutical Engineering I

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 dosage forms, and the role of key operational units in drug manufacturing processes
- 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 Systems Management (http://catalog.njit.edu/graduate/newark-college-engineering/mechanical-industrial/pharmaceutical-systems-management-ms) and MS in Pharmaceutical Engineering (http://catalog.njit.edu/graduate/newark-college-engineering/chemical-biological-pharmaceutical/pharmaceutical-ms).

Gainful Employment Disclosure

Click here (http://www.njit.edu/graduatestudies/sites/graduatestudies/files/gainfulemployment/pharmaceutical-management-cert-gainful-employment.html) for the Gainful Employment Disclosure for this program

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