Interested in Drug Delivery?

GRADUATE STUDIES IN PHARMACEUTICS

The University of Minnesota College of Pharmacy, the only school of pharmacy in the state of Minnesota, offers programs on the Twin Cities and Duluth campuses. Founded in 1892, the College of Pharmacy educates pharmacists and scientists, and engages in research and practice to improve the health of the people of Minnesota and society.

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

DEPARTMENT OF PHARMACEUTICS

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What is Pharmaceutics?

Pharmaceutics focuses on the development and evaluation of drug delivery systems. Pharmaceutical scientists engage in a variety of important work including:

- characterizing physical properties of drugs
- developing dosage forms for drugs in the context of physiochemical properties and desired route of administration
- exploring the relationship between dosage form and drug availability to the site of action
- quantitatively evaluating drug absorption, distribution, metabolism, excretion, and pharmacological activity in the living organism

Other Frequently Asked Questions

What is the difference between pharmaceutics and pharmacology?

Pharmaceutics is concerned with the quantitative aspects of drug delivery, and involves the design, development, and evaluation of drugs in combination with an appropriate dosage form. Pharmacology is the study of how drugs interact with biological targets in order to exert their effects on living systems.

Do I need to have a master's degree to apply?

A bachelor's degree is sufficient. If you are admitted, any missing prerequisites will be built into your program of study.

What if I don’t have a pharmacy background?

Many pharmaceutics students have non-pharmacy backgrounds in areas such as chemistry, chemical engineering, biology, neuroscience, and mathematics.

How long will it take to earn a degree?

A PhD degree in Pharmaceutics averages four to five years and an MS degree in Pharmaceutics averages two to three years.

What is it like to live in Minnesota?

Minnesota has four truly beautiful seasons that offer enjoyable indoor and outdoor activities throughout the year. When spring arrives you will find people of every age and ability strolling, running, and biking on groomed paths. Summer brings outdoor sports, music, and free movies in the parks, and many enjoy canoeing and picnics on the connecting lakes located right in the middle of the city. It’s not far to the north woods of Minnesota for camping, fishing, and viewing the abundant wildlife. Fall brings dazzling leaf colors throughout the state, and winter is celebrated with outdoor festivals, skiing, and ice skating, along with indoor activities that are available year-round.

Are you fascinated by the physiochemical properties of drugs?

Do you have a passion for understanding the delivery of drugs to the body and for applying that understanding to enhancing health through research?

If so, the University of Minnesota’s graduate programs in Pharmaceutics may be just what you’re looking for!
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