

# Course Overview



## Course Information

**Code:** PHT-421

**Title:** Biopharmaceutics and Pharmacokinetics

**Cr hr:** 3+0

**Level:** 7

**Program:** PharmD

**Co-requisites:** None

**Prerequisites:** PHT-320, PHT-323

## Course Description

This course acquaints students with the fundamental concepts that determine the time course of drug concentrations in the body. A comprehensive understanding of the drug journey (absorption, distribution, metabolism and elimination) within human body will be explained and interrelated to the basic pharmacokinetics of a drug. In addition, this course introduces basic principles and concepts of pharmacokinetics parameters and modeling.

## Topics

- Pharmacokinetics: basic consideration
- Absorption of drugs
- Distribution of drugs
- Protein binding of drugs
- Biotransformation of drugs
- Excretion of drugs
- Bioavailability and bioequivalence
- Basics of pharmacokinetics