

# Course Overview



## Course Information

**Code:** CPH-454

**Title:** Clinical Pharmacokinetics

**Cr hr:** 2+1

**Level:** 8

**Program:** PharmD

**Co-requisites:** None

**Prerequisites:** PHT-421, CPH-442

## Course Description

The course illustrates how pharmacokinetics relates to the clinical practice in term of therapeutic dosage regimen design and interpretation. The course includes reviewing the basic pharmacokinetic parameters and pharmacodynamics backgrounds that assist student to evaluate and assess the used route of administrations and use of appropriate therapeutic drug monitoring for certain drugs that need utmost attention. Also, pharmacokinetic models will relate the exposure and effect of the drug that is needed to evaluate drug progression and in clinical trial simulations.

## Topics

- Pharmacokinetics review
- Antibiotics
- Cardiovascular agents
- Anticonvulsants
- Immunosuppressants
- Other drugs
- Pharmacogenetics drug interactions