

COURSE DETAIL

PATHOPHYSIOLOGY, PHARMACOLOGY, AND DRUG DEVELOPMENT

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

137

UCEAP Course Suffix**UCEAP Official Title**

PATHOPHYSIOLOGY, PHARMACOLOGY, AND DRUG DEVELOPMENT

UCEAP Transcript Title

PHARMCGY DRUG DEVEL

UCEAP Quarter Units

12.00

UCEAP Semester Units

8.00

Course Description

Diseases that integrate physiology, cellular biology, and molecular biology with pathophysiology and pharmacology are central to this course. The course provides a comprehensive perspective on organ system related diseases, their complications, and treatments at the molecular, cellular, and systemic level. The course starts with a focus on basic pathophysiology at the cellular and molecular levels and an introduction to pharmacology with a focus on pharmacodynamics, pharmacokinetics and toxicology. The course covers various aspects such as pathophysiological mechanisms, pharmacological and non-pharmacological interventions, the mechanisms of the impact of drugs at the molecular, cellular and organ level and ethical considerations related to the UN Global Goals from a broad perspective. During the course, different parts of the drug development process are introduced – from the early pre-clinical stages to clinical trials and approval. Pre-req includes BIMB40 Organ Systems and Homeostasis of the Human Body.

Language(s) of Instruction

English

Host Institution Course Number

BIMB43

Host Institution Course Title

PATHOPHYSIOLOGY, PHARMACOLOGY AND DRUG DEVELOPMENT

Host Institution Course Details

<https://kursplaner.lu.se/pdf/kurs/en/BIMB43>

Host Institution Campus

Lund

Host Institution Faculty

Medicine

Host Institution Degree

Host Institution Department

Course Last Reviewed

2024-2025

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