

## 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 Campus

Lund

### Host Institution Faculty

Medicine

### Host Institution Degree

### Host Institution Department

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