

COURSE DETAIL

ADVANCED PHYSIOLOGY

Country

Netherlands

Host Institution

Utrecht University - University College Utrecht

Program(s)

University College Utrecht

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

110

UCEAP Course Suffix**UCEAP Official Title**

ADVANCED PHYSIOLOGY

UCEAP Transcript Title

ADVANCED PHYSIOLOGY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The functioning of the human or animal body depends on how individual organ systems function, which in turn depends on how the cells function, which itself depends on the interactions between subcellular organelles and countless molecules. Thus, integrated physiology takes a global view of the human body, requiring an in-depth understanding of events at the level of molecules, cells, and organs. This course begins at the level of individual organ systems, and then explores at the molecular level before expanding the focus to include the homeostasis of the entire body. The course examines several organs systems, such as the central nervous system, the liver, the heart and blood vessels, the lungs, the kidneys, and the endocrine glands. Occasionally, the course ventures into the field of pathophysiology to illustrate how a change in normal physiology leads to malfunction and disease. This course takes examples from human and animal physiology to explain the working mechanisms and principles of physiology acting throughout the mammalian realm.



Language(s) of Instruction

English

Host Institution Course Number

UCSCBIO33

Host Institution Course Title

ADVANCED PHYSIOLOGY

Host Institution Campus

Science

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biology

[Print](#)