

COURSE DETAIL

CELL BIOLOGY

Country

Netherlands

Host Institution

Maastricht University - University College Maastricht

Program(s)

University College Maastricht

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

105

UCEAP Course Suffix**UCEAP Official Title**

CELL BIOLOGY

UCEAP Transcript Title

CELL BIOLOGY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

In this course students discuss, at a detailed molecular level, different cellular and genetic processes that are the basis of life as we know it. Students are familiarized with further knowledge in the field of cell biology, which enables them to better understand and appreciate the newest developments in this research area. Discussions revolve around general cell biological topics such as the role of membranes, membrane transport of small molecules, the nuclear architecture, the organization of the genome, regulation of transcription and translation, protein trafficking, the cell cycle and maintenance of genomic integrity, programmed cell death and senescence. The last task, dealing with cancer, serves as an integration task; knowledge of the previous topics is required to appreciate what the consequences can be when a cell goes astray and the defense mechanisms of the body fail. Prerequisites for this course include introduction to biology. This course is designed to be taken in combination with SKI2077 Lab Skills: Cell Biology. Students wishing to take the Lab Skills should concurrently enroll in or have completed this course. Students wishing to take SCI2037 Cell Biology without taking the Lab Skills may do so.

Language(s) of Instruction

English

Host Institution Course Number

SCI2037

Host Institution Course Title

CELL BIOLOGY

Host Institution Campus

University College Maastricht

Host Institution Faculty

University College Maastricht

Host Institution Degree

Host Institution Department

Sciences

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