

# COURSE DETAIL

## CELL BIOLOGY

**Country**

Netherlands

**Host Institution**

Maastricht University - Center for European Studies

**Program(s)**

Biological and Life Sciences, Maastricht

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

118

**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

This course discusses, at a detailed molecular level, different cellular and genetic processes that are the basis of life as we know it. The course aims to familiarize students 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: Introduction to Biology.

### Language(s) of Instruction

English

### Host Institution Course Number

BIO2001

### Host Institution Course Title

CELL BIOLOGY

### Host Institution Campus

Maastricht University

### Host Institution Faculty

Center for European Studies

### Host Institution Degree

### Host Institution Department

Science

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