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 Course Details
https://curriculum.maastrichtuniversity.nl/education/contract/public-health-med…

Host Institution Campus
Maastricht University

Host Institution Faculty
Center for European Studies

Host Institution Degree

Host Institution Department
Science

Course Last Reviewed
2024-2025

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