BB1160 Eukaryotic Cell Biology 7.5 credits

Eukaryot cellbiologi

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for BB1160 valid from Autumn 2019

Grading scale

A, B, C, D, E, FX, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

The upper-secondary school before 1 July 2011 and adult education at upper-secondary level before 1 July 2012

Specific entry requirements: mathematics E, physics B and chemistry A. The grade Passed or 3 inn each of the subjects is required .

The upper-secondary school from 1 July 2011 and adult education at upper-secondary level from 1 July 2012 (Gy2011)

Specific entry requirements: Physics 2, Chemistry 1 and Mathematics 4. Minimum requirement is a pass grade.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After completion of the course the student shall have knowledge and understanding to:

- Describe and explain functions in eukaryotic cells on a molecular level. (TEN1)

Course contents

Through lectures and exercises, the course will describe organization and transport in eukaryotic cells and how single cells builds up multi-cellular organisms. Moreover, principles for cell communication, with be described. The cell cycle, cell renewal and cell death including errors leading to cancer with be addressed from a molecular perspective. Central principles of the immune system is also part of the course.

Prerequisites equivalent to BB1150 Biochemistry 1 are recommended.

Examination

- TEN2 - Written exam, 7.5 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.