



SK2513 Cell Culture: Theory and Practice 4.0 credits

Celldeling: teori och praktik

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

Establishment

The Head of School at the SCI School has decided on April 15, 15, to set this syllabus to apply from HT2020 diary number: S-2020-0289.

Grading scale

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

Education cycle

Second cycle

Main field of study

Biotechnology

Specific prerequisites

For single courses students, 120 hp is required in engineering and natural sciences or equivalent, as well as knowledge of English B or equivalent.

Language of instruction

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

Intended learning outcomes

After completing the course the student should be able to:

- independently subculture an animal cell line
- describe the equipment, appliances, and consumables needed for cell culture
- account for the different aspects of good cell culture practice
- perform calculations necessary for a cell line propagation and for preparation of stock solutions

Course contents

Cell culture laboratory: equipment, appliances, consumables. Cell culture methods. Media and solutions. Contamination of cell cultures. Cell viability tests. Good cell culture practice. Ethical and sustainability issues related to the cell culture.

Examination

- TEN1 - Written exam, 2.0 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory experiments, 2.0 credits, grading scale: P, 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.

Other requirements for final grade

Laboratory exercises (LAB1 2,0 credits, grade: P)

Written exam (TEN1 2,0 credits, grade scale: A, B, C, D, E)

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.