BB2130 Microbiology of Waste-water Treatment 7.5 credits

Vattenreningens mikrobiologi

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

Establishment

Course syllabus for BB2130 valid from Autumn 2007

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Biotechnology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

In order to pass the course, the student must:

- participate actively in all of the seminars (or if the student can't attend, there is the possibility to write a short paper on the seminar's topic)
- fulfill the lab course in a satisfactory manner
- write a paper within one of the topic areas which is mentioned during the course. This paper will be critiqued and opposed by one of your course mate
- participate in the opposition and critique of another course mate

Course contents

Microorganisms can often, in an economical and efficient manner, purify water from impurities like organic material, nourishment substances and poison. We study biological purification systems and their active key organisms in this course. We also go through the techniques used to control their small organisms.

The course consists of ten three-hour seminars where you will work in groups and listen to a shorter presentation from experts in the area. In every seminar, a section from the book will be read in advance so that it may be discussed during the seminar.

The labs correspond to 2 credit points. The lab schedule will be posted at the start of the course. You will, among other things, analyze microbiological processes in sewage water and isolate and identify bacteria in active sludge.

Course literature

Wastewater Microbiology, Gabriel Bitton. 2ed.

Examination

- TEN1 - Examination, 4.5 credits, grading scale: P, F
- LAB1 - Laboratory Work, 3.0 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

Project work (TEN1; 4,5 credits, grading scale Pass/Fail) and Laboratory exercises (LAB1; 3,0 credits, grading scale Pass/Fail).

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.