



LT1022 Science, Technology and Learning 11.0 credits

Vetenskap, Teknik och Lärande

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

Establishment

Course syllabus for LT1022 valid from Spring 2018

Grading scale

VG, G, U

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

After passing the course, the student should be able to:

- describe for different informal learning environments, describe their possibilities, limitations and fields of use in the education sector.
- reflect on experiments and their importance in their teaching
- develop an experiment to use in their teaching based on theories that have been treated in the course.
- carry out and evaluate experiments with a student group.
- develop a visit to an informal learning environment based on theories that have been treated in the course.
- carry out and evaluate a visit to an informal learning environment with a student group.
- plan and carry out a study at a Science centre/museum.
- describe, analyse and reflect on one's own project work both orally and in writing with connection with relevant literature

Course contents

The course treats the experiment's importance within natural sciences, technology and teaching, and how informal teaching environments can be used as a resource to communicate science and technology to schools and the public.

Disposition

One's own experiments and visits will be planned and be prepared in collaboration with the school, to then be developed, carried out and evaluated after student visit. The student will also plan and carry out an investigative project at a Science centre/museum. The course includes about 9 credits of Placement that are examined in the examination parts PROA, PROB and PROC

Course literature

Anges senast tre veckor före kursstart.

Examination

- PROB - Class visit to Tom Tits Experiment, 3.0 credits, grading scale: VG, G, U
- SEMA - Active participation in compulsory teaching sessions, 1.0 credits, grading scale: P, F
- INLA - Written assignments, 1.0 credits, grading scale: P, F
- PROA - Class visit to Vetenskapens Hus, 3.0 credits, grading scale: VG, G, U
- PROC - Investigation at a museum, 3.0 credits, grading scale: VG, G, U

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

A Pass grade requires passed written assignments, passed seminar participation and passed project assignment

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.