LT1061 To develop subject literacy in mathematics for grades 7-9 and upper secondary school through content and language integrated learning (CLIL) 3.0 credits

Att utveckla ämneslitteracitet i matematik för åk 7-9 och gymnasiet genom ett språk- och kunskapsutvecklande arbetssätt (SKUA)

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

Establishment

The official course syllabus is valid from the spring semester 2025 in accordance with a decision from the Faculty board of the ITM school: M-2024-1608. Date of decision: 2024-08-26.

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology and Learning

Specific prerequisites

Teaching degree in mathematics.

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:

1. Explain the importance of the language for developing knowledge and literacy in mathematics education.

2. Identify and discuss the linguistic characteristics and the requirements specific to the mathematics subject in order for all pupils, irrespective of linguistic background, to be able to express and display their knowledge using a relevant and subject-specific language.

3. Plan and carry out teaching in the mathematics subject with a content- and language-integrated learning (CLIL) approach in order to create an inclusive and supportive learning environment.

4. Reflect on experiences of content- and language-integrated learning in order to improve their teaching practice, promote continuous professional development, and improve the pupils' learning outcomes.

Course contents

The course is designed to help the participants develop the skills needed to successfully employ a content- and language-integrated learning approach in order to create an inclusive and supporting learning environment.

The course gives an introduction to the development of the literacy of the mathematics subject in multilingual school environments.

The course is conducted online, with assignments and seminars.

Examination

- LEXA - Continous assessment, 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

All assessment modules passed. Selected parts of the course may require compulsory attendance. Any compulsory attendance will be made clear to participants in the course memo provided at the start of the course.

Examination format and detailed grading criteria and assignments are to be described in the course memo before the start of the course.

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.