DALARNA
UNIVERSITY

Course Syllabus

Mathematical Problem-Solving for Secondary School Teachers
7.5 Credits*, First Cycle Level 1

Learning Outcomes
After completing the course, students will be able to:

- explain various academic theories and research findings, both national and international, that deal with mathematical problem-solving in schools,
- communicate mathematics in speech, writing and images,
- use different mathematical ideas, forms of expression and forms of representation in problem-solving,
- demonstrate the ability to be creative in the creation, formulation and solving of problems that do not have a given solution,
- interpret and critically examine pupils' solutions and demonstrate an understanding of the mathematical progression of pupils' learning,
- analyse the teaching of mathematical problem-solving in an academic manner.

Course Content
Assessment

Forms of Study

Grades
The Swedish grades U–VG.

Prerequisites
General entry requirements and Mathematics 3c or Mathematics D

Other Information
For students praticipation in the online course requires internet access and appropriate equipment such as microphone and webcam.
The course corresponds to MD1055.

Subject:
Mathematics Education

DALARNA UNIVERSITY

Group of Subjects:
Educational Sciences/Theoretical Subjects

Disciplinary Domain:
Natural Science, 100%

This course can be included in the following main field(s) of study:
1. No main field of study

Progression Indicator within (each) main field of study:
1. G1N

Approved:
Approved 1 October 2015
Valid from 18 January 2016

Revised:
Revised, 3 December 2021
Revision is valid from 3 December 2021

* 1 Credit = 1 ECTS