



Didactics of Mathematics for Secondary School Teachers 20 cr

Matematikdidaktik för ämneslärare 20 hp

Set by Faculty of Engineering and Sustainable Development

Version

Set at

Valid from

2/24/22

HT2022

Level	G2F
Education level	First cycle
Course identifier	MAG527
Credits	20 cr
Main field of study	Mathematics
Subject group	Mathematics
Disciplinary domain	Natural sciences 50.0 % Placement 50.0 %

Learning outcomes

After completion of the course the student shall be able to

1. show the ability to plan, implement, evaluate and develop teaching independently and in collaboration with others
2. present and critically examine solutions to problems within primary and secondary school mathematics based on mathematical didactic theories
3. show the ability to apply their content, didactical and pedagogical knowledge in teaching
4. explain and analyze policy documents relevant for the subject
5. demonstrate communicative ability in listening, speaking and writing in order to support the teaching practice
6. account for knowledge of key concepts for primary and secondary school mathematics.

Course content

Key concepts in primary and secondary school mathematics courses
Theoretical tools for lesson planning
Planning, implementation and evaluation of teaching activities
Basic problem solving methodology
Policy documents relevant to mathematics teaching

Teaching

Lectures, seminars and teaching practice

Prerequisites	Prerequisites in English is missing		
Examination	Wwritten examination, written and oral presentations and attendance at mandatory seminars and teaching practice		
	Module 0010 Written examination 6 hp, examines learning outcomes 3 and 6, grade A-F		
	Module 0020 Written and oral presentations 3 hp, examines learning outcomes 1-3, grade U, G, VG		
	Module 0030 Mandatory seminars 1 hp, examines learning outcome 4, grade U,G		
	Module 0040 Teaching practice 10 hp, examines learning outcomes 1, 3 and 5, grade U, G, VG		
Grade	A, B, C, D, E, Fx, F		
Other regulations	Degree Criteria for final grade will be given by examiner or course responsible latest at the beginning of the course.		
Sustainable environment	A minor part of the course content deals with sustainable development.		
Module			
	0010	Written examination	6 cr Grade: AF
	0020	Written and oral presentations	3 cr Grade: UV
	0030	Mandatory seminars	1 cr Grade: UG
	0040	Teaching practice	10 cr Grade: UV