



HÖGSKOLAN I GÄVLE

Basic Algebra with Didactics of Mathematics for Schoolyears 4- 6 7.5 cr

Grundläggande algebra med ämnesdidaktik med inriktning mot årskurs 4-6 7,5 hp

Set by Faculty of Engineering and Sustainable Development

Version

Set at	Valid from
3/10/14	HT2014
3/11/16	HT2016
2/26/18	HT2018

Level	G1F
Education level	First cycle
Course identifier	MAG341
Credits	7.5 cr
Main field of study	Mathematics
Subject group	Mathematics
Disciplinary domain	Natural sciences 100.0 %

Learning outcomes After completion of the course, the student shall be able to

1. give an account of the meaning of, and didactical aspects of, concepts relevant to the course
2. demonstrate and explain mathematical problems to a group
3. plan teaching in pre-algebra/algebra.

Course content

- Set theory
- Logic and proof
- Number theory
- Negative numbers
- Rational and irrational numbers
- Percents
- Pre-algebra/algebra
- Equations and functions

Teaching	Lectures, problem solving sessions, problem demonstrations, and seminars.		
Prerequisites	Utbildningsvetenskaplig kärna 1, 30 hp i grundlärarprogrammet eller avslutad/påbörjad lärutbildning och Matematik 2a/2b/2c alternativt Matematik B		
Examination	Written and oral examination, problem demonstrations, and active participation in educational activities		
Grade	A, B, C, D, E, Fx, F		
Other regulations	Grading criteria are provided by the examiner or course coordinator in connection with the course introduction.		
Sustainable environment	Content with sustainable development is not relevant to this course.		
Module			
	0020	Written examination	6 cr Grade: AF
	0040	Oral and written examination	1.5 cr Grade: UV