



## HÖGSKOLAN I GÄVLE

### Mathematics Education in Teaching and Research 7.5 cr

*Matematikdidaktik i undervisning och forskning 7,5 hp*

Set by Faculty of Engineering and Sustainable Development

#### Version

Set at	Valid from
3/10/14	HT2014
3/11/16	HT2016

<b>Level</b>	G1F
<b>Education level</b>	First cycle
<b>Course identifier</b>	MAG324
<b>Credits</b>	7.5 cr
<b>Main field of study</b>	Mathematics
<b>Subject group</b>	Mathematics
<b>Disciplinary domain</b>	Natural sciences 100.0 %

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

1. give an account of different theories of children's mathematical learning
2. describe and examine different examples of current research in mathematics education, from national and international perspectives
3. propose how to plan, carry out and evaluate the mathematics teaching through problem solving
4. assess and evaluate pupils' achievements through the use of different assessment tools.

**Course content** Research in mathematics education from national and International perspectives  
Teaching through problem-solving  
Evaluation and assessment  
Theories of mathematical learning  
Multilingual mathematics classrooms

**Teaching** Lectures and seminars

**Prerequisites** Utbildningsvetenskaplig kärna 1, 30 hp i grundläroprogrammet och antagen till grundläroprogrammet termin 3 eller avslutad/påbörjad lärarutbildning och 15 hp matematik

**Examination** Written and oral presentations of didactical assignments and active participation in teaching 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 Paper Analysis	4.5 cr	Grade: AF
0030	Written Paper Analysis	2.5 cr	Grade: UV
0040	Seminar	0.5 cr	Grade: UG