Linnæus University

Dnr: UGA 2013/1255-3.1.2

Course syllabus

Faculty of Technology

Department of Mathematics

2MAÄ03 Verksamhetsförlagd utbildning för ämneslärare i matematik I - inriktning mot arbete i årskurs 7-9, 7,5 hp, 7,5 högskolepoäng

2MAÄ03 Teaching practice placement for lower secondary school teachers of Mathematics I, 7.5 credits

Main field of study
Mathematics

Subject Group
Mathematics

Level of classification
First Level

Progression
G2F

Date of Ratification
Approved 2012-03-30
Revised 2013-06-14 by Faculty of Technology. The objectives are revised.
The course syllabus is valid from autumn semester 2013

Prerequisites
1 MAÄ01 Mathematics I – for lower secondary school teachers, 1-30 credits and
1 MAÄ03 Mathematics II – for lower secondary school teachers, 31-60 credits, or equivalent

Objectives

After completing the course, the students with the guidance from the supervisor should be able to:

- plan and implement teaching that is useful and appropriate to and understandable for students
- in teaching adapt the choice of methods, content and materials, and other resources in relation to the objectives of the education and current student group
- evaluate the extent to which the objectives of education where achieved
- respond to students and colleagues in a manner consistent with the fundamental values of the policy documents.

Content
The course covers the following topics:

- auscultation
- participation in the teacher / supervisor all duties
- policy documents
- planning, implementation, documentation and evaluation of mathematical topics
- documentation and evaluation of pupils' knowledge

Professions base and professional progression
The course is the first stage in the student's work placement professional progression. The course places great emphasis on the student's communicative abilities in listening, speaking and writing in support of the educational activities.

Scientific approach and scientific progression
As for the student's scientific progression the course is the first opportunity to note the activities issues and problems and relate them to the rest of education.

Required presence
During the practical part of training the student should be present and participate actively in the activities during five weeks full time.

Type of Instruction
Teaching Practice is in itself a form of teaching in which the student develop the teaching profession relevant action competencies, general as well science education. Instruction is also in the form of dialogue and reflection on experiences and teaching situations involving a Teaching Practice supervisor and teacher trainers.

Examination
The course is assessed with the grades Fail (U) or Pass (G).

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Examination of the expected learning outcomes occurs through observations of the individual student's actions in the educational activities and follow-up dialogues between the student, Teaching Practice supervisor and teachers from the University.

Course Evaluation
After completing the course, a course evaluation is compiled and written feedback to the students. The statement recognized for the current institutional bodies and for the relevant Programme Board, and filed by the course coordinator department.

Required Reading and Additional Study Material
Required Reading
Bergsten, Christer, Häggström, Johan & Lindberg, Lisbeth (1997). Algebra för alla. Nämnaren Tema, NCM. ISBN 9188450082

Emanuelsson, Göran, Wallby, Karin, Johansson, Bengt & Ryding, Ronnie (2000). Matematik – ett kommunikationsämne. Nämnaren Tema, NCM. Göteborgs universitet, 1996. P 150.ISBN 9188450066

Hansen, Hans Christian, Skott, Jeppe & Jess, Kristine. (2009). Matematik för lärare. Ypsilon band 1, Gleerups förlag. ISBN13: 9789140668134

Myndigheten för skolutveckling, Mer än matematik, Liber distribution, 2008,ISBN

9789185589463

National Research Council (2001). Adding it up: Helping Children learn mathematics. In Jeremy Kilpatrick, Jane Swafford, & Bradford Findell (Eds.). Mathematics Learning Study Committee, Center for Education, Division of Behavioral and Social Sciences and Education. Washington, DC: National Academy Press. (app. 100 p), ISBN13: 9780309069953

Skolverket. Kursplan och betygskriterier för ämnet matematik. Stockholm: Skolverket. www.skolverket.se/sb/d/165/a/8906