



Course syllabus

Faculty Board of Science and Engineering

School of Computer Science, Physics and Mathematics

GO7982 Examensarbete - Matematikdidaktik för tidiga år, 15 högskolepoäng

GO7982 Degree Project in Mathematical Didactics, 15 credits

Main field of study

Mathematics

Subject Group

Educational Sciences/Theoretical Subjects

Level of classification

First Level

Progression

G1E

Date of Ratification

Approved 2009-08-11

Revised 2010-08-03 by School of Computer Science, Physics and Mathematics.

Revision of the prerequisites and course evaluation.

The course syllabus is valid from spring semester 2011

Prerequisites

60 credits within the general field of education and 30 credits mandatory specialization in Mathematics and Swedish or the equivalent.

Objectives

Having completed the course the student is expected to have

- knowledge and skills to be able to formulate, structure and conduct an independent research- and development project from a scientific approach
- increased ability to understand and analyse educational work
- increased ability as regards written presentations.

Content

Planning of the degree project is scheduled early on in the programme and should preferably be linked with the student's experience from his or her workplace training. Connections to the ongoing didactical research projects at the university are also recommended.

Throughout the course the student will conduct a survey concerning a limited field that is of relevance for the teaching profession with special focus on the subject mathematics for nursery schools, preschools and after-school recreation centres. The survey is presented in the form of a written report.

Type of Instruction

The degree project is planned and conducted independently – individually or in pairs – in close collaboration with the supervisor. The course consists of independent work, obligatory seminars, and individual studies of relevant scientific literature.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

The course is examined through a verbal and written examination seminar that concludes the course. In order to pass the course the student is to present and defend his or her degree project, critically analyse and act as an opponent on someone else's degree project, as well as actively participate in other seminars.

If two students have conducted a project together the individual achievements need to be distinguishable and individually assessable.

Course Evaluation

A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

Other

Having completed the training the student will receive a degree certificate upon request from the Graduation Office at the Division of Student Affairs.

Decisions to include a course or parts of a course are made by the Teacher Training Board. Inclusions are to be based on whether or not the previous work is considered to fulfil the objectives and contents of this course syllabus. Course overlaps cannot at the same time form bases for a degree.

Required Reading and Additional Study Material

Required reading

Strömquist, S, *Skriboken. Skrivprocess, skrivråd och Skrivstrategier*, Gleerups, 2000 (195-227). Pages 30 (230).

Svenska skrivregler utgivna av Svenska Språknämnden Liber, 2000. Pages 207.

Alternative literature

Ett urval av följande litteratur väljs i samråd med handledare:

Bryman, A, *Samhällsvetenskapliga metoder*, Liber ekonomi, 2000 (valda delar).

Ely, M, *Kvalitativ forskningsmetodik i praktiken. Cirklar inom cirklar*, Studentlitteratur, 1993. Pages 264.

Jarrick, A & Josephson, O, *Från tanke till text. En språkhandbok för uppsatsskrivandestudenter*. Studentlitteratur, 1996. Pages 133.

Johansson, B & Svedner, P-O, *Examensarbetet i lärarutbildningen*. Uppsala: Kunskapsföretaget, 2001. Pages 104

Nyberg, R, *Skriv vetenskapliga uppsatser och avhandlingar med stöd av IT och*

Internet, Studentlitteratur, 2000. Pages 243.

Patel, R & Davidsson, B, *Forskningsmetodikens grunder*
Studentlitteratur, 2003. Pages 149.

Strömquist, S, *Uppsatshandboken. Råd och regler för utformningen av examensarbeten*
och

vetenskapliga uppsatser. Hallgren & Fallgren, 1998. Pages 150.