



Course syllabus

Faculty Board of Science and Engineering

School of Computer Science, Physics and Mathematics

GU7431 Svenska och matematik - fortsättningsspecialisering för verksamhet i skolans tidiga år, 30 högskolepoäng

GU7431 Swedish and mathematics – specialization for the primary school years, 30 credits

Main field of study

Mathematics

Subject Group

Educational Sciences/Theoretical Subjects

Level of classification

First Level

Progression

G1F

Date of Ratification

Approved 2009-08-11

Revised 2011-10-31 by School of Computer Science, Physics and Mathematics.

Literature list is revised.

The course syllabus is valid from spring semester 2012

Prerequisites

The student has to pass at least 22.5 credits in the course Reading, writing and mathematics 1 – specialization for the primary years GU7411, (30 credits) to be admitted or equivalent.

Objectives

Having completed the course the students should:

- have such knowledge and proficiency that they can help and assess pupils of pre-school and primary school age in their development of language and mathematical abilities taking into account the pupils' social background, as well as age, gender and ethnicity
- be able to utilise and systematize their own and others experiences as well as relevant research results as a basis for the development of the role of, the teacher, have acquired knowledge of methods and ways of working that can stimulate children's creativity and joy of discovery with support the ICT as well as printed literature

- have developed their own language abilities and be conscious of their own reading, writing and mathematical abilities
- have advanced knowledge of the mathematical learning processes of pre-school children and primary school ages
- have command of the basic elements of arithmetic, algebra and geometry
- have the ability to analyse and use critically the mathematical content of teaching material
- be able to use different outdoor environments to work with basic numeracy, geometry, algebra, statistics and spatial awareness for school year F-6.
- be able to describe, and through concrete exercises show, how to communicate mathematics in varied ways with different pupils.
- be able to describe and consider, when planning lessons, the possibilities and disadvantage of everyday associations in the learning of mathematics.

A complementary aim of the course, as in all teacher training, is to increase the ability to use written and spoken Swedish correctly.

Content

For more information see each sub course

Module 1 15 credits

Child Language and children's literature in a multicultural society

The course includes the following:

- children's literature, narrative and discussion about literature
- the relationship between text and illustration, moving pictures and their importance in the process of socialization
- Swedish as a second language and the cultural perspective of texts in school
- advanced language analysis and writing for study and working life.

The course comprises Literary History, 9 credits; Swedish as a Second Language, 3 credits; Swedish Language, 3 credits.

Module 2 IMD303 7.5 credits

Mathematics and Teaching

For detailed information, see each course syllabus.

Module 3 IMD316 7.5 credits

Mathematics and Outdoor Didactics – Mathematics for Middle School Pupils

Focusing on Learning in an Outdoor Environment.

For detailed information, see each course syllabus.

Type of Instruction

Teaching is conducted in the form of lectures, group discussions, laboratory work as well as obligatory seminars during which the students present their surveys and analyses.

When given as a distance course special distribution methods are used appropriate to the means of teaching.

To attend this course you need access to a field study class or a group of pupils.

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 partly through active participation in lectures and seminars, partly through oral and written examinations and the presentation of obligatory tasks.

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.

Required Reading and Additional Study Material

Textbooks: Module 1

Andersson, M. och Druker, E. (red.). 2008. *Barnlitteraturanalyser*, Studentlitteratur. 213 pages.

Att undervisa elever med Svenska som andraspråk - ett referensmaterial. Skolverket, 1999. 103 pages.

Axelsson, M. (red.). 1999. *Tvåspråkiga barn och skolframgång - mångfalden som resurs*, Rinkeby Språkforskningsinstitut. 151 pages.

Boström, L. & Josefsson, G. 2006. *Vägar till grammatik*, Studentlitteratur. 213 pages.

Chambers, A. 2011. *Böcker inom och omkring oss*. X Publishing. (ISBN978-91-85763-19-1). 293 pages.

Edwards, A. 2008. *Bilderbokens mångfald och möjligheter*, Natur och kultur. 139 pages.

KjersénEdman, L. 2002. *Barn- och ungdomsböcker genom tiderna*, Natur & Kultur. 227 pages.

Kåreland, L. 2009. *Barnboken i samhället*, Studentlitteratur. 160 pages.

Lindstedt, I. 2002. *Textens hantverk. Om retorik och skrivande*, Studentlitteratur. 146 pages.

Stensson, Britta. 2006. *Mellan raderna: strategier för en tolkande läsundervisning*. Daidalos. 160 pages.

Wagner, Åse Kari H, Strömquist, Sven & Uppstad, Per Henning: *Den flerspråkiga människan*. Studentlitteratur, 2010. 278 sidor.

Svenska skrivregler utgivna av Språkrådet, Liber. 2008. 263 pages.

Children's Literature in agreement with the teacher

Textbooks: 1MD303

Specified in each module.

Textbooks: 1MD316

Specified in each module.

Reference Literature