FOU1813  Classics in Mathematics Education Research, 5 credits
Klassiker i Matematikdidaktisk forskning, 5 högskolepoäng

Third-cycle level / Forskarnivå

Confirmation
This syllabus was confirmed by the Department of Pedagogical, Curricular and Professional Studies on 2018-10-13, and is valid from Autumn semester 2018.

Responsible department/equivalent
Department of Pedagogical, Curricular and Professional Studies, Faculty of Education

Entry requirements
To qualify for the course, the student has to be registered as a PhD student. In the case where there are more qualified applicants than the number of seats, priority will be given to students at the Faculty of Education.

Learning outcomes
On successful completion of the course, the third-cycle student is expected to be able to:

Knowledge and understanding
• Identify researchers and findings that have come to be considered classics in mathematics education.
• Identify the variety of journals where important findings in mathematics education research have emerged.

Competence and skills
• Relate their own research to relevant classics in the field of mathematics education.

Judgment and approach
• Critically examine articles in their own interest area to identify key findings, and argue for their present or future importance.
Course content
This course will provide an overview of articles within the field of mathematics education that have come to be considered as classics due to their strong influence on the development of the field during the second half of the 20th century. The course will include research articles spanning a variety of research questions concerning teaching practices, student achievement, conceptualisations, mathematical thinking, cultural contexts, and socio-mathematical norms. Different mathematical content topics and research methodologies will be discussed and specifically related to research approaches chosen by the participating PhD students. The course literature will provide the basis for discussions about:

-- What has been the focus of mathematics education research during this period?
-- How do the results of these classics influence present research?

Types of instruction
The main forms of teaching are seminars and presentations by the PhD students.

Language of instruction
The course is given in English.
Language of instruction: The course will be held in English if there are non-Swedish-speaking participants, and in Swedish otherwise.

Grades
The grade Pass (G) or Fail (U) is given in this course.

Types of assessment
Assessment will be based on the PhD student's contribution to group discussions, oral presentations, and an individually written essay. The written essay should relate the PhD student’s own field of interest to classics in mathematics education research. The essay should be written in Swedish or English and be between 3000 and 5000 words.

Course evaluation
Course evaluation is conducted together with the participants, partly on a continuous basis and partly at the end of the course. The evaluation will be taken into account in the implementation of the current course as well as in the development and planning of future courses.

Other information
Campus course