



Faculty of Science

## MAXM30, Master's Degree Project in Synchrotron Radiation Based Science, 30 credits

*Examensarbete för masterexamen i synkrotronljusbaserad vetenskap,  
30 högskolepoäng*  
Second Cycle / Avancerad nivå

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### Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2008-11-14 and was last revised on 2008-11-14. The revised syllabus applies from 2008-11-14, spring semester 2009.

### General Information

The course is included in the main field of synchrotron radiation based science at the Faculty of Science. It is a compulsory second cycle component of a degree of Master of Science in Synchrotron Radiation Based Science.

*Language of instruction:* English

*Main field of studies*

Synchrotron Radiation Based Science

*Depth of study relative to the degree requirements*

A2E, Second cycle, contains degree project for Master of Arts/Master of Science (120 credits)

### Learning outcomes

The objective is that the students, on completion of the course, shall have acquired the following knowledge and skills.

- Ability to independently, or in a group, process a problem area
- Ability to apply acquired knowledge to a specific task
- Ability to obtain the necessary background information in print and online sources
- Ability to present achieved results in speech and writing
- Ability to present the results in a way that is accessible to non-experts

## Course content

The course consists of one unified component. It comprises 30 credits and can be studied part time (50 per cent). In consultation with their supervisor, the students will be assigned a practical and/or theoretical task. The task can belong to one of the research areas represented at the MAX IV Laboratory, or taken from other problem areas at companies and other institutions.

## Course design

## Assessment

The degree project requires specialised study and a literature review. Supervision will be provided. The project is to be presented in the form of a written report, normally in English. The report is also to include a popular science summary. The project is to be submitted for review, criticism and assessment at a seminar. Students who fail an assessment will be offered another opportunity for assessment soon thereafter.

*Subcourses that are part of this course can be found in an appendix at the end of this document.*

## Grades

Marking scale: Fail, Pass, Pass with distinction.

The final grade is determined by an aggregate of the assessment of the execution of the degree project and of the presentation of the results obtained.

## Entry requirements

To be admitted to the course, students must meet the general entry requirements for admission to Swedish higher education and have English B from Swedish upper secondary school and 90 credits in science, including the courses MAXM06 Introduction to Synchrotron Radiation Science, 7.5 credits, and MAXM07 Introduction to Accelerators and Free Electron Lasers, 7.5 credits.

## Subcourses in MAXM30, Master's Degree Project in Synchrotron Radiation Based Science

Applies from H11

0701 Master's Degree Project, 30,0 hp  
Grading scale: Fail, Pass, Pass with distinction