

ASTM31, Astronomy: Master's Degree Project, 60 credits

Astronomi: Examensarbete för masterexamen, 60 högskolepoäng

Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2007-04-12 (N 2007/149). The syllabus comes into effect 2007-07-01 and is valid from the autumn semester 2007.

General information

The course is a compulsory course for second-cycle studies for a Degree of Master of Science (120 credits) in astrophysics.

Language of instruction: Swedish and English

If needed, the course is given in English.

<i>Main field of study</i>	<i>Specialisation</i>
----------------------------	-----------------------

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

Learning outcomes

The aim of the course is that, upon completion of the course, the students shall have acquired the following knowledge and skills. The student shall in a qualified way be able to

- independently or in a group investigate a problem or problem area within astrophysics
- apply knowledge that has been acquired earlier on a specific task
- set up a time plan and follow it
- interpret and evaluate achieved results

- in writing compile and orally present a report that describes the problem, methods and results
- present a popular description of tasks and results

have obtained training in

- information retrieval and processing of information and observation materials
- creative and critical thinking

Course content

The course consists of an independent project chosen in consultation with a supervisor. The project can be observational, technical or theoretical. If possible, the project should be linked to current scientific projects at the department.

Course design

The teaching is in the form of supervision, by a teacher or other individual that is especially familiar with the subject area in question. Normally, the degree project requires certain specialised studies and a survey of the literature. The course may include experimental parts in the form of laboratory work and observational exercises. Collection of required observation data can take place at another observatory. The course includes presentation methodology and information technology equivalent to 7.5 credits.

Assessment

The degree project is concluded with written and oral presentations of the results. The written report has to have a summary in English and be supplemented with a short description in Swedish intended for a broader audience. The oral presentation takes place in the form of a seminar in the presence of the supervisor and the examination committee.

Grades

Grading scale includes the grades: Fail, Pass, Pass with distinction

The final grade is decided by a combination of the implementation of the degree project and the presentation of the project. The examination committee decides the grade in consultation with the supervisor.

If the examiner assesses that the submitted work can not be accepted, the student shall be given the possibility to supplement the work for renewed assessment.

Entry requirements

For admission to the course the following is required:

Those students are qualified who are admitted to the Master's (120 credits) programme in astrophysics or fulfill equivalent prerequisites.