

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 to be valid from 2007-07-01, 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.

Main field of studies

Astrophysics

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 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.

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 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.

Subcourses in ASTM31, Astronomy: Master's Degree Project

Applies from V13

- 1301 Project Orientation and Start-up, 15,0 hp
Grading scale: Fail, Pass
- 1302 Project Work and Description Seminar, 7,5 hp
Grading scale: Fail, Pass
- 1303 Project Work, Research Seminar and Draft Report, 15,0 hp
Grading scale: Fail, Pass
- 1304 Project Completion and Examination, 22,5 hp
Grading scale: Fail, Pass, Pass with distinction

Applies from H07

- 0701 Master's Degree Project, 60,0 hp
Grading scale: Fail, Pass, Pass with distinction