Faculty of Science

ASTX01, Astronomy: Master's Thesis, 30 credits

Astronomi: Examensarbete för magisterexamen, 30 högskolepoäng

Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2007-04-12 and was last revised on 2007-04-12. The revised syllabus comes into effect 2007-01-01 and is valid from the autumn semester 2007.

General information

The course is included in the main field of physics at the Faculty of Science and is offered by the Department of Astronomy and Theoretical Physics. It is a compulsory second-cycle component of a degree of Master of Science (60 credits) in Astronomy.

Language of instruction: Swedish and English

Main field of study	*Specialisation*
Astrophysics	A1E, Second cycle, contains degree project for Master of Arts/Master of Science (60 credits)

Learning outcomes

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

be able to

- independently or in groups process a problem or problem area within astrophysics
- apply knowledge previously acquired to a specific assignment
- design a time plan and stick to it
- interpret and assess results obtained
- compile in writing and orally present a report describing an issue, methods and results
- present a popular science presentation of assignments and results

have received training in

- information retrieval and processing of information and observation material
- thinking creatively and critically

Course content

The course consists of an independent assignment chosen in consultation with a supervisor. The approach can be observational, experimental or theoretical. If possible, the assignment should be associated with a research project conducted at the department.

Course design

The teaching consists of supervision provided by a lecturer or other person with expertise in the topic concerned. The project normally requires some specialised study and a literature review. Exercises in observation or experimentation may be included. The observation data required can be collected at another observatory.

Assessment

The degree project is concluded with a report of the results in speech and writing. The written report is to include an abstract in English and a short description in Swedish intended for a wider audience. The oral presentation is to take place at a seminar attended by the supervisor and examining committee.

Grades

Grading scale includes the grades: Fail, Pass, Pass with distinction
The final grade is determined by an aggregate of the assessment of the degree project and the presentation of it. The grade is set by the examining committee in consultation with the supervisor.

Entry requirements

To be admitted to the course, students must have knowledge equivalent of FYSA31 (Physics 3, Modern Physics).