

Syllabus

for course at first level

Astronomy, Degree Project

Astronomi, självständigt arbete

15.0 Higher Education

Credits

15.0 ECTS credits

Course code:	AS6001
Valid from:	Spring 2016
Date of approval:	2007-08-28
Changed:	2016-01-18
Department	Department of Astronomy
Main field:	Astronomy
Specialisation:	G2E - First cycle, has at least 60 credits in first-cycle course/s as entry requirements, contains degree project for BA/BSc

Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University on 2007-08-28

Prerequisites and special admittance requirements

To enter this course, at least 135 HECs are required. The courses must include Quantum mechanics I, 7,5 hp, FK5011 and Quantum mechanics II, 7,5 hp, FK5012, or similar, as well as two of the courses Cosmology, 5 p, AI1340, Introduction to astro-particle physics , 7,5 hp, FK5001, Astrophysics spectra, 5 p, AI1380 or Stellar structure och evolution, 5 p, AI1360, or similar. Which courses have been taken govern the nature of the degree project.

Course structure

Examination code	Name	Higher Education Credits
TEN1	Astronomy, Degree Project	15

Course content

The course includes the following elements:

A project work under the supervision of teacher. The choice of subject is made together with the teacher and the examiner. Key issues are plan, execute and report the scientific research. Furthermore, literature search is trained, as well as writing a report in English and to train oral presentation of science report. The Degree project also includes a seminar series about the concept of "scientific".

Learning outcomes

It is expected that the student after taking the course will be able to:

- demonstrate insights in the methods and results of astronomical research
- search for and acquire astronomical literature
- critically evaluate literature
- show basic skills to present scientific results
- demonstrate an independent and scientific attitude where previously acquired astronomy/physics knowledge will be used
- demonstrate insight into the concept of "scientific"

Education

The education consists of independent work under the supervision of a teacher. The work should be presented orally as well as in a written report. The problem and the scientific background should be presented together with a summary of the relevant science literature. The Degree project includes a seminar series about the concept of "scientific". Participation in the practical laboratory work and group education associated with this is compulsory. An examiner may rule that a student is not obliged to participate in certain compulsory education if there are special grounds for this after consultation with the relevant teacher.

Forms of examination

a. Examination for the course is in the following manner: measurement of knowledge takes place through: Written and/or oral presentations

b. Grading is carried out according to a 7-point scale related to learning objectives:

A = Excellent
B = Very Good
C = Good
D = Satisfactory
E = Sufficient
Fx = Fail
F = Fail

c. Grading criteria for the course will be distributed at the start of the course.

d. A minimum grade of E is required to pass the course, together with: approved attendance at a seminar series on the concept of "scientific"

e. Students who fail to achieve a pass grade in an ordinary examination have the right to take at least further four examinations, as long as the course is given. The term "examination" here is used to denote also other compulsory elements of the course. Students who have achieved a pass grade on an examination may not retake this examination in order to attempt to achieve a higher grade. Students who have failed to reach teacher be appointed to set the grade of the course. A request for such appointment must be sent to the departmental board. a pass grade on two occasions have the right to request that a different

Interim

Students may request that the examination is carried out in accordance with this syllabus even after it has ceased to apply. This right is limited, however, to a maximum of three occasions during a two-year-period after the end of giving the course. A request for such examination must be sent to the departmental board.

Limitations

The course may not be included in the Bachelors program in Astronomy together with the courses Examensarbete i astronomi, gk., 10p., AI1330, Examensarbete i astronomi, gk., 10p., AI3030, or Examensarbete i astronomi, gk., 20p., AI3020.

Misc

The course is a component of the Bachelor programme in Astronomy, and it can also be taken as an individual course.

Required reading

The literature is based on scientific publications and reports within the science area, compiled by the student through literature search, as well as literature handed out by the supervisor and/or assistant supervisor.