



# FSH3120 Contemporary Topics in Astrophysics 3.0 credits

Aktuella ämnen inom astrofysik

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

## Establishment

Course syllabus for FSH3120 valid from Spring 2019

## Grading scale

P, F

## Education cycle

Third cycle

## Specific prerequisites

Enrolled as PhD student.

## Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

## Intended learning outcomes

After completing the course the student should be able to:

1. understand fundamental concepts within a topical research area in Astrophysics
2. be able to use the theory to critically evaluate scientific articles wrt methodology and results as well as set the research performed in the article into a larger context.
3. Identify the most important research development within the research field.

## Course contents

The course covers both fundamental theory and observations in a topical subject in astrophysics. Examples are GRBs, AGNs, black holes, pulsars, X-ray polarisation.

Active follow up of literature in the research area.

Student presentations of important results and recent progress in the field.

## Course literature

Hand outs

## Examination

- SEM1 - Seminars, 3.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

## Other requirements for final grade

To pass the course the students should give 1-2 open seminars on the subject. The students should demonstrate that they have obtained good understanding of the subject and be able to apply their knowledge and answer questions and comments in an appropriate way.

## Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.