



SH2402 Astrophysics 6.0 credits

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 SH2402 valid from Autumn 2007

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Physics

Specific prerequisites

Recommended prerequisites: Previous knowledge of mathematical methods in physics and quantum physics.

Language of instruction

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

Intended learning outcomes

The student should have obtained a broad overview of modern techniques for analyzing the radiation from celestial objects, as well as knowledge of radiation processes, stellar spectra, basic stellar structure and evolution, galactic and solar physics.

Course contents

Electromagnetic radiation, interstellar medium, stellar evolution, structure of galaxies, creation of elements.

Course literature

Freedman & Kaufmann "Universe" 7th edition (preliminary)

Examination

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

One written exam (TEN1; 6 university credits).

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.