



SH2401 Stellar Structure and Evolution 6.0 credits

Stjärnornas struktur och utveckling

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 SH2401 valid from Autumn 2007

Grading scale

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

Education cycle

Second cycle

Main field of study

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 an understanding of the observational properties of stars and be able to explain the physical principles underlying the structure and evolution of stars. Nucleosynthesis and its dependence on mass are also studied.

Course contents

Observational properties of stars, gas hydrodynamics, mass-luminosity relation, nucleosynthesis and stellar evolution.

Specific prerequisites

Recommended prerequisites: Previous knowledge of mathematics, physics and measuring techniques.

Course literature

Christensen-Dalsgard: Stellar Structure and Evolution (booklet)

Examination

- TEN1 - Examination, 6.0 credits, grading scale: A, B, C, D, E, FX, 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

One written exam (TENA; 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.