

COURSE DETAIL

ASTRONOMY: ASTROBIOLOGY - CONDITIONS AND POSSIBILITIES FOR LIFE IN THE UNIVERSE

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics Earth & Space Sciences Biological Sciences

UCEAP Course Number

178

UCEAP Course Suffix**UCEAP Official Title**

ASTRONOMY: ASTROBIOLOGY - CONDITIONS AND POSSIBILITIES FOR LIFE IN THE UNIVERSE

UCEAP Transcript Title

ASTROBIO LIFE UNIVR

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The course contains description of those planets and those among their moons in the solar system that can be envisioned to have physical and/or chemical preconditions to develop life. The development of the earliest lifeforms on Earth, and extreme environments for present-day life on the bottom of the oceans, around hot springs, deep underground, in permafrost, or in radioactive environments. Design of space probes, as well as experiments to study biologically relevant environments on other planets. Analysis of extraterrestrial material in the laboratory, and risks for spreading organisms between different planets. Current and planned instruments and methods to find and to study planets around other stars. Development over geological ages of different planets together with their host star and the development of their atmospheres and climates. The search for intelligent life in the Universe, and possible philosophic and other consequences of a possible discovery thereof. The prerequisites required for admission to the course are at least 60 credits of approved courses within the faculties of either science, technology and/or medicine.

Language(s) of Instruction

English

Host Institution Course Number

ASTC11

Host Institution Course Title

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Host Institution Course Details<https://www.lunduniversity.lu.se/lubas/i-uoh-lu-ASTC11>**Host Institution Campus**

Lund

Host Institution Faculty

Science

Host Institution Degree**Host Institution Department****Course Last Reviewed**

2025-2026

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