

**SYLLABUS**

# **Astrobiology 7.5 credits**

## **F7005R**

**Astrobiologi**

**Course syllabus admitted: Autumn 2007 Sp 1 - Present**

DECISION

**The course plan was accepted by the Dept of Space Science 2007-02-28 and remains valid as from H07.**

# Astrobiology 7.5 credits F7005R

## Astrobiologi

### Second cycle, F7005R

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Rymd- och atmosfärsvetenskap	Space Technology

## Entry requirements

Minimum two years of education in natural sciences at university level.

## Selection

The selection is based on 30-285 credits

## Examiner

Sverker Fredriksson 2113

## Course Aim

After the course the student should have acquired knowledge about:

- the conditions for life in the universe, both within and outside our solar system, from a natural-science perspective
- what is typical for life on earth
- the properties that life outside the earth might have
- methods for searching for life and life-supporting environments outside the earth
- the latest findings within the field
- scientific methods and thinking
- how scientific results and project assignments should be reported in writing in a correct and clear way.

## Contents

Discussions of topics such as: What is life? In what forms does life appear? Which are the requirements for life, in particular under extreme conditions? How did life evolve on earth and what do we know about its existence in the universe.

Recent and planned experiments will be discussed, as well as laboratory experiments, observational techniques in nature, space missions and astronomical methods for the study of distant objects.

## Realization

Lecturing and seminar work. Supervision of project work.

## Examination

A series of short home assignments, with individual answers, as well as a more extensive and detailed project in groups of up to four students. In order to pass the course it is required that both the sum of short home assignments and the project report (oral and in writing) must be approved. The final grade given for the course reflects the sum of results obtained for the various components of the examination. Details will be given at the start of the course.

Grade scale: 3 4 5

Examiner: Sverker Fredriksson – Professor of Physics

## Overlap

The course F7005R is equal to RYM023

## Literature. Valid from Autumn 2007 Sp 1

Astrobiology: A Multidisciplinary Approach

Jonathan Lunine, Lunar and Planetary Laboratory, University of Arizona, Tuscon

ISBN-10: 0805380426

ISBN-13: 9780805380422

## Course offered by

Department of Computer Science, Electrical and Space Engineering

## Items/credits

Number	Type	Credits	Grade
0001	Home assignments and project work	7.5	G U 3 4 5

## Syllabus established

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