

## COURSE DETAIL

### EXTRATERRESTRIAL PLANETS AND LIFE

**Country**

Korea, South

**Host Institution**

Seoul National University

**Program(s)**

Seoul National University

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Physics Earth & Space Sciences

**UCEAP Course Number**

78

**UCEAP Course Suffix****UCEAP Official Title**

EXTRATERRESTRIAL PLANETS AND LIFE

**UCEAP Transcript Title**

EXOPLANETS AND LIFE

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course explores whether the chemical and biological evolutions on the Earth could be a universal phenomenon in the galaxy. From an astronomical point of view the course examines the evolution of cosmic matter up to heavy elements, which are essential ingredients for forming biological creatures.

Topics include: modern search techniques, their limitations, and potential search technologies of the future; the formation of terrestrial planets as distinguished from Jovian; how orbits of the exo-planets are analyzed for evidence that they may be solar terrestrial planets; the evolutionary path of Earth over the last 4.6 billion years; the Goldilocks problem of atmospheric evolution; birth and growth of civilization; parameterization of human ignorance by Drake's equation; Gaia, and Ohn-Saeng Myung; interstellar communication; terraformation of Mars; heavens and hells.

### Language(s) of Instruction

English

### Host Institution Course Number

046.007

### Host Institution Course Title

EXTRATERRESTRIAL PLANETS AND LIFE

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

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