

COURSE DETAIL

ANTIBIOTICS: BIOLOGY AND CHEMISTRY

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

148

UCEAP Course Suffix**UCEAP Official Title**

ANTIBIOTICS: BIOLOGY AND CHEMISTRY

UCEAP Transcript Title

ANTIBIOTICS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

Antibiotics were once regarded as miracle drugs. However, they are becoming less effective as bacteria develop resistance against them. The increasing occurrence of micro-organisms that are resistant to multiple antibiotics constitutes a serious threat to human health. The course addresses fundamental questions and problems concerning antibiotics such as what is the role of antibiotics in nature? How are they synthesized? What are their modes of action? How can new antibiotics be discovered? How can we attack problems with antibiotic-resistant microorganisms? The course brings a comprehensive understanding of the biology and chemistry of antibiotics. It provides insight into bacterial physiology and also industrial and clinical aspects of antibiotics and the evolution of antibiotic resistance.

Language(s) of Instruction

English

Host Institution Course Number

BIOR56

Host Institution Course Title

ANTIBIOTICS: BIOLOGY AND CHEMISTRY

Host Institution Campus

Lund

Host Institution Faculty

Science

Host Institution Degree

Host Institution Department

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