

COURSE DETAIL

BIOLOGY 1

Country

United Kingdom - Scotland

Host Institution

University of St Andrews

Program(s)

University of St Andrews

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

20

UCEAP Course Suffix**UCEAP Official Title**

BIOLOGY 1

UCEAP Transcript Title

BIOLOGY 1

UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

This course is an introduction to molecular and cellular biology. It covers cell diversity and the origins of life, cellular structures, and fundamental processes. Students investigate the central dogma of molecular biology through the examination of the structure and function of DNA, RNA, and proteins, and they examine how this knowledge led to modern developments in biotechnology. The final section of the course gives an introduction into molecular and population genetics with an emphasis on the process of evolution. Throughout the course the lecture material is complemented by extensive practical classes where biological laboratory techniques are taught and practiced through, for example, microscopy, DNA isolation, dissection, and thin layer chromatography.

Language(s) of Instruction

English

Host Institution Course Number

BL1101

Host Institution Course Title

BIOLOGY 1

Host Institution Campus

St Andrews

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biology

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