

COURSE DETAIL

EVOLUTIONARY BIOLOGY

Country

Hong Kong

Host Institution

University of Hong Kong

Program(s)

University of Hong Kong

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

126

UCEAP Course Suffix**UCEAP Official Title**

EVOLUTIONARY BIOLOGY

UCEAP Transcript Title

EVOLUTIONARY BIOL

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course introduces the major themes of contemporary evolutionary biology, including the history of evolutionary biology, evolutionary processes, adaptation, speciation, and evolution as an explanatory framework at all levels of biological organization. The course emphasizes the interplay between theory and empirical tests of hypotheses, thus examining the process of science. Course topics include: introduction to evolutionary biology; the tree of life; patterns of evolution; biogeography; evolution of biodiversity; mechanisms of evolution (natural selection, mutation, genetic drift); phenotypic evolution; social interactions in evolution (sex, kinship, co-evolution); species and speciation; evolution of genes and genomes; evolutionary development; and macroevolution.

Language(s) of Instruction

English

Host Institution Course Number

BIOL3506

Host Institution Course Title

EVOLUTIONARY BIOLOGY

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biological Sciences

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