

# 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 Course Details****Host Institution Campus****Host Institution Faculty****Host Institution Degree****Host Institution Department**

Biological Sciences

**Course Last Reviewed**

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