

COURSE DETAIL

EVOLUTION: MAKING SENSE OF LIFE

Country

Australia

Host Institution

University of Melbourne

Program(s)

University of Melbourne

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

114

UCEAP Course Suffix**UCEAP Official Title**

EVOLUTION: MAKING SENSE OF LIFE

UCEAP Transcript Title

EVOLUTION: LIFE

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course examines the ubiquity of biological evolution in both natural and human modified environments. It will describe and explain the agents of change— drift, migration and selection, and show their effects on both single and multiple gene traits, and on the phylogenetic relationships of species. The course will introduce co-evolutionary processes, which are critical for understanding traits that evolve through interactions between species, including humans. Particular topics will include (but not limited to): heritable variation; agents of evolution; artificial, natural and sexual selection; phenotypes and quantitative genetics; phylogeny, speciation and the tree of life; and antagonistic and mutualistic co-evolution. The subject will emphasize both the outcome and process of scientific research leading to our understanding of evolutionary processes, drawing on examples from across the diversity of life.

Language(s) of Instruction

English

Host Institution Course Number

BIOL20001

Host Institution Course Title

EVOLUTION: MAKING SENSE OF LIFE

Host Institution Course Details

<https://handbook.unimelb.edu.au/2023/subjects/biol20001>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2022-2023

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