

# COURSE DETAIL

## SYSTEMATICS AND PHYLOGENETICS

**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**

129

**UCEAP Course Suffix****UCEAP Official Title**

SYSTEMATICS AND PHYLOGENETICS

**UCEAP Transcript Title**

SYSTEM& PHYLOGENETI

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course examines the principles of systematics and phylogenetics and an appreciation of current trends and controversies. Current classification theories: phenetic systematics (classifications based on overall resemblances) and cladistics (evolutionary reconstruction). The species concept. Sources of taxonomic data: morphology & anatomy, biochemistry, chemistry, molecular biology, biogeography and ethology. Causes of taxonomic complexity: environmental factors; hybridization; breeding systems. Principles of nomenclature.

## Language(s) of Instruction

English

## Host Institution Course Number

BIOL3302

## Host Institution Course Title

SYSTEMATICS AND PHYLOGENETICS

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

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