

COURSE DETAIL

GENOMICS

Country

Taiwan

Host Institution

National Taiwan University

Program(s)

National Taiwan University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

113

UCEAP Course Suffix**UCEAP Official Title**

GENOMICS

UCEAP Transcript Title

GENOMICS

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

Recent advances in genomics have significantly revolutionized the ways which we do science in the 21st century. With the completion of the human genome, the new genome technologies have transformed our ability to understand the structure and function of genomes and to explore the genomes of multicellular organisms. This course is designed to introduce undergraduate students, who are interested in this exciting and rapidly evolving field, the basic knowledge of genome and the state-of-the-art genome technologies. The lectures will cover an introduction on genome projects, sequencing technologies, genetic variation, transcriptomics, proteomics, functional genomics, comparative genomics, metagenomics and epigenomics.

Language(s) of Instruction

English

Host Institution Course Number

LS5080

Host Institution Course Title

GENOMICS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Life Science

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