

COURSE DETAIL

GENETICS AND MOLECULAR BIOLOGY

Country

United Kingdom - England

Host Institution

King's College London

Program(s)

King's College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

112

UCEAP Course Suffix

N

UCEAP Official Title

GENETICS AND MOLECULAR BIOLOGY

UCEAP Transcript Title

GENETICS & MOLEC BIO

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces students to the key principles of genetics including Mendelian genetics, inheritance of genes, gene interaction, sex determination, polyploidy, causes and effects of mutations, gene cloning, prokaryote and eukaryote gene expression, recombination and its use in gene mapping, bacterial genetics, population and evolutionary genetics, basic molecular biology techniques including plasmid construction, PCR and DNA sequencing, and research applications of genetics. Students develop skills through data handling and problem solving, and through laboratory-based practical work.

Language(s) of Instruction

English

Host Institution Course Number

4BBY1070

Host Institution Course Title

GENETICS AND MOLECULAR BIOLOGY

Host Institution Campus

Strand

Host Institution Faculty

Host Institution Degree

Host Institution Department

Genetics

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