

# 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 Course Details**

<https://acrobat.adobe.com/link/review?uri=urn%3Aaaid%3AscDs%3AUS%3A0dca6c79-e86...>

### **Host Institution Campus**

Strand

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Genetics

### **Course Last Reviewed**

2023-2024

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