

# COURSE DETAIL

## FUNCTIONAL GENOMICS, PROTEOMICS, AND BIOINFORMATICS

**Country**

United Kingdom - England

**Host Institution**

University of London, Royal Holloway

**Program(s)**

University of London, Royal Holloway

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

164

**UCEAP Course Suffix**

N

**UCEAP Official Title**

FUNCTIONAL GENOMICS, PROTEOMICS, AND BIOINFORMATICS

**UCEAP Transcript Title**

FUNCTIONAL GENOMICS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

### **Course Description**

The course gives an advanced treatment of structure-function relationships in proteins, and of new practical opportunities for the use of genome-wide analyses in dissecting regulation in biological systems. Gene and protein networks are also discussed. Topics include, post-genomic science; modes of specific recognition in mediating protein interactions and DNA/protein interaction; domains and functions; and protein engineering. Students complete a guided bioinformatics coursework. This assesses individual competencies and practical skills as each student individually will have to analyze separate datasets and develop own conclusions on the function of a gene/protein within a network through the analysis of databases and literature.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

BS3560

### **Host Institution Course Title**

FUNCTIONAL GENOMICS, PROTEOMICS AND BIOINFORMATICS

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Biological Sciences

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