

COURSE DETAIL

ADVANCED HUMAN GENETICS: RESEARCH PRINCIPLES

Country

United Kingdom - England

Host Institution

University College London

Program(s)

University College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

122

UCEAP Course Suffix**UCEAP Official Title**

ADVANCED HUMAN GENETICS: RESEARCH PRINCIPLES

UCEAP Transcript Title

ADV HUMAN GENETICS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces the basic principles underlying modern human genetics research through a combination of lectures presenting theoretical principles, practical exercises allowing students to apply these principles, and more research-focused lectures providing illustrative case-studies. Students are introduced to the approaches currently used to identify genetic factors in health and disease. They become familiar with concepts and methods such as complex traits, population studies, Genome-Wide Association Studies (GWAS) and high through-put genome analysis. Case studies include the genetic basis of cancer, selected cardiovascular and psychiatric disorders, as well as genetic predisposition/resistance to infectious diseases.

Language(s) of Instruction

English

Host Institution Course Number

BIOL0021

Host Institution Course Title

ADVANCED HUMAN GENETICS: RESEARCH PRINCIPLES

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biology

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