

Liverpool John Moores University

Title: FORENSIC AND ANTHROPOLOGICAL GENETICS
Status: Definitive
Code: **6021NATSCI** (119665)
Version Start Date: 01-08-2019

Owning School/Faculty: Natural Sciences & Psychology
Teaching School/Faculty: Natural Sciences & Psychology

Team	Leader
Linus Girdland Flink	Y
Nick Dawnay	
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Academic Level: FHEQ6 **Credit Value:** 24 **Total Delivered Hours:** 44
Total Learning Hours: 240 **Private Study:** 196

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	20
Practical	8
Workshop	16

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Test	Test	Interpretative Test. Lecture notes allowed.	50	
Portfolio	Casework	Casework portfolio developed during practicals and workshops	50	

Aims

This module will explore the uses of genetic techniques in the field of forensic science and anthropology from a theoretical and practical perspective.

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate a theoretical and practical knowledge of the main techniques involved in forensic and anthropological studies and evaluate their advantages and limitations.
- 2 Use DNA data in a forensic context.
- 3 Use DNA data to study past populations.
- 4 Present results of DNA analysis in written form.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Interpretative Test	1	2	3
Casework report	1	2	4

Outline Syllabus

Genetic markers. DNA typing. DNA extraction. PCR. Electrophoresis. Kinship. DNA identification in forensic casework. DNA databases. DNA matching probabilities. Palaeogenetics. Miscoding lesions. Contamination. DNA approach to study of migrations. DNA approach to study of human variation and evolution.

Learning Activities

Learning will be delivered through a series of lectures, both from expert staff and invited speakers. Theory will be complemented with laboratory practicals and workshops.

Notes

The module focuses on the use of DNA techniques in the fields of Forensic Science and Forensic Anthropology.