

Liverpool John Moores University

Title: HUMAN ANATOMY AND GENETICS
Status: Definitive
Code: **5314NATSCI** (122359)
Version Start Date: 01-08-2021

Owning School/Faculty: Biological and Environmental Sciences
Teaching School/Faculty: Biological and Environmental Sciences

Team	Leader
Kyoko Yamaguchi	Y
Linus Girdland Flink	
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Academic Level: FHEQ5 **Credit Value:** 20 **Total Delivered Hours:** 50
Total Learning Hours: 200 **Private Study:** 150

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	20
Off Site	6
Practical	18
Workshop	6

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Test	Test	Interpretative test. Lecture notes allowed.	50	
Report	Report	Scientific report based on practicals and workshops.	50	

Aims

To introduce human anatomy and physiology that underlie the analysis of human remains in forensic and anthropological context. To examine the genetic techniques

used in the field of human genetics.

Learning Outcomes

After completing the module the student should be able to:

- 1 Name the elements of human anatomy and physiology and understand how they affect the condition of human remains.
- 2 Explain how genetic factors contribute to variation in human phenotype.
- 3 Demonstrate a theoretical and practical knowledge of the main techniques involved in human genetics.
- 4 Write a report based on results of DNA analysis.

Learning Outcomes of Assessments

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

Test	1	2	3
Scientific report	2	3	4

Outline Syllabus

Overview of the human anatomy and physiology. Visit to human dissection rooms. Laboratory techniques in genetics. DNA extraction. PCR. Electrophoresis. Sequencing. DNA databases. DNA approach to study of human variation and evolution.

Learning Activities

The module is delivered through lectures, off-site facility visits, laboratory practicals and workshops.

Notes

The module provide students with basic knowledge of human anatomy and physiology. It also covers DNA techniques used in the field of human genetics and forensic anthropology.