

## Liverpool John Moores University

Title: FORENSIC SCIENCE  
Status: Definitive  
Code: **4104FSBMOL** (122123)  
Version Start Date: 01-08-2021

Owning School/Faculty: Pharmacy & Biomolecular Sciences  
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

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**Academic Level:** FHEQ4      **Credit Value:** 20      **Total Delivered Hours:** 62  
**Total Learning Hours:** 200      **Private Study:** 138

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	30
Off Site	10
Practical	15
Workshop	5

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Ass1	Exam	50	2
Portfolio	Ass2	portfolio assessment	50	

## Aims

*To introduce students to a wide range of scientific areas and methods used in forensic science. Information on relevant legislation and interpretation will be presented.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 give a resume of the various branches of forensic science and types of forensic evidence including the use of statistical methods for evaluation of evidence
- 2 evaluate the significance of forensic evidence in specific cases
- 3 describe the methods of investigation applied by forensic scientists
- 4 Perform simple laboratory tests relevant to the module content

## Learning Outcomes of Assessments

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

Exam	1	2	3
Portfolio	3	4	

## Outline Syllabus

*The history of forensic science.*

*Forensic Science provision within UK.*

*Introduction to microscopy*

*Trace evidence: recovery and analysis. Examples could include hair, fibres, paint etc*

*Forensic biology: for example Body Fluids (physiology and tests for blood, semen, saliva, protein Polymorphism).*

*DNA analysis. Entomology. Decomposition and autopsy.*

*Forensic toxicology: metabolism, poisons and drugs of abuse, effects, legislation, basic analysis.*

*RTA and ballistic analysis using simple physical methods. Firearms*

*Basic Interpretation of evidence including an introduction to the Bayesian approach. case studies.*

## Learning Activities

lectures, problem based learning workshops, practical classes, self-study, site visit

## Notes

This module provides an introduction to a number of important aspects of Forensic Science. Information on the techniques used and the interpretation and evaluation of

results will be provided.