Module Proforma

Approved, 2022.02

Summary Information

Module Code	4104FSBMOL
Formal Module Title	Forensic Science
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Theresia Ralebitso Senior	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
Suzzanne McColl	Yes	N/A
Helen Burrell	Yes	N/A
Jason Birkett	Yes	N/A
Alan Gunn	Yes	N/A
Nicholas Dawnay	Yes	N/A
Amanda Boddis	Yes	N/A
Laura Randle	Yes	N/A
Kirstie Scott	Yes	N/A
James Ohman	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	25
Off Site	10
Practical	15
Workshop	5

Module Offering(s)

Offering Code	Location	Start Month	Duration
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

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:

Code	Description
MLO1	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.
MLO2	Evaluate the significance of forensic evidence in specific cases.
MLO3	Describe the methods of investigation applied by forensic scientists.
MLO4	Perform simple laboratory tests relevant to the module content.

Module Content

Outline Syllabus

The history of forensic science. Forensic science provision within UK.Introduction to microscopy.Trace evidence: recovery and analysis of for example 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.Road traffic accident (RTA)Firearms and ballistic analysis using simple physical methods.Basic interpretation of evidence including an introduction to the Bayesian approach.Case studies.

Module Overview

The aim of this module is to introduce you to a wide range of scientific areas and methods used in forensic science.

Additional Information

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.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Centralised Exam	Exam	50	2	MLO3, MLO1, MLO2
Portfolio	Portfolio	50	0	MLO3, MLO4