

Liverpool John Moores University

Title: TRACE EVIDENCE ANALYSIS
Status: Definitive
Code: **7001FSBMOL** (120792)
Version Start Date: 01-08-2015

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

Team	Leader
Amanda Boddis	Y
Jason Birkett	
Mark Murphy	
Suzanne McColl	
George Sharples	

Academic Level: FHEQ7 **Credit Value:** 20.00 **Total Delivered Hours:** 40.00
Total Learning Hours: 200 **Private Study:** 160

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	16.000
Practical	18.000
Tutorial	2.000
Workshop	4.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	Report	Mini Project Report	50.0	
Presentation	Case study	Case Study Presentation	50.0	

Aims

Trace Evidence such as paint, glass and fibres play a pivotal role in criminal

investigations. It is essential for forensic scientists to be able to identify, differentiate and analyse different types of trace evidence as well as to be able to interpret the results of their analysis. Analysis of the majority of trace evidence begins with advanced microscopic methods and in some cases can end with chemical composition determination.

The aims of this module are to provide students with the theoretical knowledge and practical experience required by a forensic scientist to identify and examine trace evidence. In addition to, the ability to discuss, appraise and assess the results obtained.

Learning Outcomes

After completing the module the student should be able to:

- 1 Identify and differentiate between different types of trace evidence and to be able to interpret the results of their analysis
- 2 Develop detailed knowledge of a range of advanced techniques used in the analysis of trace evidence.
- 3 Undertake a critical appraisal of the pivotal role and limitations played by trace evidence analysis using a case study

Learning Outcomes of Assessments

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

Mini Project Report	1	2
Case Study Presentation	3	

Outline Syllabus

Trace evidence

Advanced microscopy techniques for the analysis of trace evidence

Other advanced techniques for the analysis of trace evidence

Learning Activities

Lectures, Mini Project, Workshops, Tutorial, Case Study

Notes

This module allows students to gain theoretical knowledge and practical experience of advanced techniques used to analyse trace evidence.