

## Forensic Archaeology and Crime Scene Investigation

Module Code:	ARC7012-B
Academic Year:	2018-19
Credit Rating:	20
School:	School of Archaeological and Forensic Sciences
Subject Area:	Forensic Science
FHEQ Level:	FHEQ Level 7 (Masters)
Pre-requisites:	
Co-requisites:	Crime Scene Investigation 2017-18, Introduction to Forensic

### Contact Hours

Type	Hours
Lectures	18
Practical classes and	42
Directed Study	140

### Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 2 (Feb - May)

### Module Aims

This module builds upon the practical and theory presented in 'Introduction to Forensic Archaeology' and 'Crime Scene Investigation'. To provide advanced skills in the application of archaeological principles and practice to simulated crime scenes. To interpret and present this evidence in written and oral evidence to the court.

### Outline Syllabus

Archaeological excavation and recovery in a forensic context. Recording stratigraphy. The drawn record (measured records, plan drawing, section drawing, scales, symbols and conventions). Total station survey (post-processing data using Leica Geo Office, single-survey using robotic total station and vision survey). Maps and GIS (using map assets, differential GPS, Viewshed analysis). Airborne imagery (extant imagery, open access

resources and archive data, Police National Air Support, Elevated masts, drones and kites). Presentation for the courts - 3D laser scanning (types of laser scanner, spheres and other markers, registering scans, post-processing of data). Visualising the crime scene. The roles and responsibilities of the forensic archaeologist as expert witness in the criminal justice system. Forensic archaeology and quality assurance procedures and regulation and Criminal Procedure Rules. format and purpose of forensic strategy meetings. The Bayesian approach in forensic science and writing expert reports and witness statements. Mapping and manipulation of map assets.

### **Module Learning Outcomes**

*On successful completion of this module, students will be able to...*

- 1 Understand the integration of archaeological principles and practice into crime scene investigation.
- 2 Search, excavate and recover evidential material from a crime scene and to produce both a written report and an expert witness statement to a professional standard that will be defensible in Court.
- 3 Participate in oral briefings, forensic strategy meetings, and present oral evidence to a mock court.
- 4 Compile a report to an advanced professional standard that will be defensible in court using the appropriate presentation skills. This will contain all the relevant details of the material found at a crime scene and ensure that it cross references with exhibits seized at the scene
- 5 Exhibit advanced ability to undertake surveys, utilising the most applicable methods.
- 6 Problem solve within a simulated scenario, to self manage time and resources within a defined project in co-operation with other team members.
- 7 Present written documents and oral evidence to a professional standard.

### **Learning, Teaching and Assessment Strategy**

The formal lectures will provide an underpinned structure relating to the archaeological recording in the field through survey and scale planning, the roles and responsibilities of the expert witness in the criminal justice system, quality assurance procedures and regulation and Criminal Procedure Rules. Students will be given formal training in: the format and purpose of forensic strategy meetings, the Bayesian approach, writing expert reports and witness statements. The practical learning sessions and their associated tutorials will challenge students with simulated crime scenes that will be subject to search, recovery and interpretation of evidence. These investigations will require the students to decide upon courses of action within resource limits set by the scenario.

### **Mode of Assessment**

<b>Type</b>	<b>Method</b>	<b>Description</b>	<b>Length</b>	<b>Weighting</b>	<b>Final Assess'</b>
Summative	Examination - oral/viva voce	Mock court	25 minutes	25%	No
Summative	Coursework	Expert witness statement	-2500 words	50%	No
Summative	Coursework	Forensic Strategy Document	-1000 words	25%	No

### **Legacy Code (if applicable)**

AR-7134D

### **Reading List**

To view Reading List, please go to [rebus:list](#).