Module Proforma

Approved, 2022.02

Summary Information

Module Code	7107FSBMOL
Formal Module Title	Wildlife Forensic Science
Owning School	Pharmacy & Biomolecular Sciences
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Nicholas Dawnay	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings

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	10
Off Site	80
Workshop	10

Module Offering(s)

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

Aims and Outcomes

Aims	To provide students with a solid grounding in wildlife forensic science including key UK and international legislation, field collection methods and morphological and DNA based species identification techniques. To support the development of key skills that enable safe working in remote rural areas. To develop a critical awareness of key species' ecology that are protected and the criminal activities involving these species.

Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Demonstrate a comprehensive understanding of the risks and dangers associated with remote field work.
MLO2	Safely secure and collect wildlife forensic evidence from remote field sites.
MLO3	Critically evaluate current forensic methods used in the investigation of wildlife crime.

Module Content

Outline Syllabus
1. Key UK and international legislation• Wildlife and Countryside Act 1981 • Animal Welfare Act 2006• COTES Regulations 19972. Key species and illegal activities• International trade, i.e. Rhino, Tiger, Elephant• Domestic persecution, i.e. badgers, birds of prey, sheep3. Wildlife forensic evidence overview• Animal evidence• Human evidence4. Species identification methods• Morphological based• DNA based5. Safe working practices in rural locations• Weather• Navigation/Orienteering• Risk Assessment• Hazzard Recognition• Personal Equipment• Emergency Situations• Evidence collection on steep ground6. Evidence collection in the field• Wet/dry• Packaging• Secure• Labelling• Safe handling of snares• Safe handling of poisons7. Wildlife Forensic Support Community• Police Wildlife Crime Officers• RSPCA• RSPB• Zoological Groups

Module Overview

Additional Information

While not guaranteed, the following activities provide an idea of what may be included on the course.• Chester Zoo visit. Preventing extinction workshop; identifying key promotors in the Illegal Wildlife Trade; IWT species tracking activity; Rhino, Tiger, Elephant IWT talks; CITES/COTES regulations. • Review of rural crime activity with North Wales Police; field site visit to working farm; evidence assessment; evidence recovery; crime scene management, risk assessment and H&S, evidence handling, evidence packaging. • Two day Outdoor Risk Management Training. Navigation/Orienteering; risk assessment; hazard recognition; personal equipment; emergency situations. • Non-animal evidence in Wildlife Crimes. Guide to snares; guide to commonly used pesticides and poisons; safe collection and handling; human evidence; fingerprint collection; DNA collection. • Evidence recovery from steep ground. Abseiling/ascending; risk assessment, hazard recognition, evidence recovery from steep hills, evidence recovery from mountainsides/cliffs. • Raptor persecution. Bird of prey handling; species identification; species ecology. mock outdoor crime scene activity, crime scene management, risk assessment and H&S, evidence handling, evidence packaging, fingerprinting from eggs, fingerprinting from feathers. • Badger awareness training. Persecution of badgers, training in criminal offences that badgers face in the UK, badger ecology, sett identification, legislation, case law, expert witnesses, crime scenes.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Practice	Crime Scene Assessment	50	0	MLO1, MLO2
Presentation	PowerPoint Lecture	50	0	MLO1, MLO3