1. KentVision Code and title of the module

FSCI5560 – Forensic Ballistics

## Division and School/Department or partner institution which will be responsible for management of the module

Division of Natural Sciences (Chemistry and Forensic Science)

## The level of the module (Level 4, Level 5, Level 6 or Level 7)

Level 5

## The number of credits and the ECTS value which the module represents

15 Credits (7.5 ECTS)

## Which term(s) the module is to be taught in (or other teaching pattern)

Spring

## Prerequisite and co-requisite modules and/or any module restrictions

None

## The course(s) of study to which the module contributes

Compulsory for the following courses:

BSc (Hons) Forensic Science (all variants)

MSci Forensic Science

Not available as an elective module

## The intended subject specific learning outcomes. On successfully completing the module students will be able to:

8.1 Demonstrate mathematical ability in ballistics-related calculations outside the context in which they were first studied.

8.2 Demonstrate knowledge and critical understanding of how firearms operate.

8.3 Demonstrate knowledge and critical understanding in the forensic analysis of cartridge cases and bullets.

8.4 Demonstrate a knowledge and critical understanding of shooting scene reconstruction and the limitations of ballistic investigations.

8.5 Demonstrate a knowledge and critical understanding of wound ballistics.

8.6 Demonstrate a knowledge and critical understanding of UK firearms law.

8.7 Show a consideration of how to take a multidisciplinary approach to ballistic analysis and investigation.

## The intended generic learning outcomes. On successfully completing the module students will be able to:

9.1 Demonstrate a range of numerical skills.

9.2 Demonstrate a variety of communication methods.

9.3 Demonstrate skills required for employment in the ballistics field.

## A synopsis of the curriculum

This module will give students a background in forensic ballistics, including the investigation of shooting scenes, firearms law and wound ballistics.

## Reading list

## The University is committed to ensuring that core reading materials are in accessible electronic format in line with the Kent Inclusive Practices.

## The most up to date reading list for each module can be found on the university's [reading list pages](https://kent.rl.talis.com/index.html).

## Contact Hours

Private Study: 124

Contact Hours: 26

Total: 150

## Assessment methods

13.1 Main assessment methods

* Mathematics Assignment (2 hours) – 20%
* Presentation (15 minutes) – 20%
* Examination (2 hours) – 60%

13.2 Reassessment methods

* 100% Examination

## Map of module learning outcomes (sections 8 & 9) to learning and teaching methods (section 12) and methods of assessment (section 13)

**Module learning outcomes against learning and teaching methods:**

| **Module learning outcome** | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 | 8.6 | 8.7 | 9.1 | 9.2 | 9.3 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Private Study | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Lecture | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  |  |  |
| Workshop | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |

**Module learning outcomes against assessment methods:**

| **Module learning outcome** | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 | 8.6 | 8.7 | 9.1 | 9.2 | 9.3 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mathematics Assignment | **x** |  |  |  |  |  |  | **x** | **x** | **x** |
| Presentation | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Examination | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |

## Inclusive module design

The Division recognises and has embedded the expectations of current equality legislation, by ensuring that the module is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services.

The inclusive practices in the guidance (see Annex B Appendix A) have been considered in order to support all students in the following areas:

a) Accessible resources and curriculum

b) Learning, teaching and assessment methods

## Campus(es) or centre(s) where module will be delivered

Canterbury

## Internationalisation

In many respects, the mathematics taught in this module is an international language. The intended learning outcomes within this module are applicable worldwide as part of the universal principles of mathematics and the building blocks of science. Additionally, the varied international manufacture of weapon systems and social aspects of firearms are discussed in relation to their effects on many different countries and cultures around the world.

**DIVISIONAL USE ONLY**

**Module record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

| Date approved | New/Major/minor revision | Start date of delivery of (revised) version | Section revised  (if applicable) | Impacts PLOs (Q6&7 cover sheet) |
| --- | --- | --- | --- | --- |
| 8 Dec 2021 | Minor | Sept 2022 | 12 | No |
|  |  |  |  |  |