1. KentVision Code and title of the module

BIOS6270 – Haematology & Blood Transfusion

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

Division of Natural Sciences (Biosciences)

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

Level 6

## 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 Biomedical Sciences and related courses

Not available as an elective module.

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

8.1 Show a detailed understanding of the factors affecting the production and development of red and white blood cells;

8.2 Demonstrate complex knowledge of the processes involved in disease of both red and white blood cells;

8.3 Recognise the features of a variety of pathological conditions encountered in haematology;

8.4 Demonstrate a critical understanding of the factors involved in the maintenance of haemostasis and how they interact;

8.5 Demonstrate a detailed understanding of the principles of blood component replacement therapy and the associated risks;

8.6 Recognise the characteristic changes of blood parameters in selected disease states;

8.7 Experimental approaches used to investigate haematological disease.

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

9.1 Interpret and retrieve information critically;

9.2 Generate, interpret, analyse and evaluate complex data confidently;

9.3 Demonstrate effective communication skills in a variety of ways;

9.4 Practical skills in selected haematological laboratory techniques.

## A synopsis of the curriculum

This module describes the anatomy, physiology, pathology of the blood and blood forming tissues. It covers a wide range of disorders including haematological malignancies. Blood transfusion theory and practice are introduced. Roles for haematopoietic stem cells during blood cell development and as therapeutic agents are discussed. Students will be exposed to ethical and regulatory concerns with regard to transfusion and blood cell therapies.

## 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: 27

Contact Hours: 123

Total: 150

## Assessment methods

13.1 Main assessment methods

* Practical Report (1,500 words) – 40%
* Examination (2 hours) – 60%

Both the Practical Report and the Examination are compulsory elements and must therefore be passed in order to complete the module.

13.2 Reassessment methods

* 100% Examination

## Map of module learning outcomes (sections 9 & 10) to learning and teaching methods (section 13) and methods of assessment (section 14)

**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 | 9.4 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Private Study | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** | **x** | **x** | **x** |
| Lecture | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** |
| Practical | **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 | 9.4 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Practical Report |  | **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

Science is an international discipline with widely applicable international resonance. This module presents subject-specific knowledge generated, developed, and refined by scientists around the world. Mastery of the learning outcomes will equip students to apply the knowledge in a wide range of international contexts and these will be addressed in making the content relevant to current global issues. The Division of Natural Sciences is an international community of students and staff and group activities and teaching will provide a platform for internationally-focussed discussion.

**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) |
| --- | --- | --- | --- | --- |
| 18 Dec 2018 | Minor | September 2020 | 8-9,11,13-14 | No |
| 24 Jan 2020 | Major | September 2020 | 14 | No |
| 20 Nov 2020 | Minor | September 2021 | 13-14 | No |
| 16 Dec 2021 | Minor | September 2022 | 13-14 | No |