1. KentVision Code and title of the module

NATS0005 – Fundamental Human Biology and Genetics

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

Division of Natural Sciences

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

Level 3

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

20 Credits

## 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

Optional for the following courses:

BSc (Hons) Biochemistry with a Foundation Year;

BSc (Hons) Biology with a Foundation Year;

BSc (Hons) Biomedical Science with a Foundation Year;

BSc (Hons) Chemistry with a Foundation Year;

BSc (Hons) Forensic Science with a Foundation Year;

BSc (Hons) Sport and Exercise Science with a Foundation Year;

BSc (Hons) Sport and Exercise for Health with a Foundation Year;

BSc (Hons) Sports Therapy and Rehabilitation with a Foundation Year.

Not available as an elective module

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

8.1 Understand basic details of how cells divide and differentiate.

8.2 Identify and explain at foundation level major physiological systems of the body.

8.3 Understand at foundation level fundamental principles of genetics and inheritance of human characteristics and diseases.

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

9.1 Source, retrieve and use relevant information at a foundational level

9.2 Organise and manage their own time effectively with appropriate guidance.

## A synopsis of the curriculum

This module will build upon fundamental biological principles and processes and place them in the context of key human physiological systems. The function of human tissues will be explained and discussed. The module will explore key principles of genetic inheritance and the drivers of genetic variation. These key areas will provide the foundations for exploring homeostasis in humans, the maintenance of health and the onset of disease.

## 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: 170

Contact Hours: 30

Total: 200

## Assessment methods

13.1 Main assessment methods

* Online Moodle Quiz 1 (20 Questions) – 10%
* Online Moodle Quiz 1 (20 Questions) – 10%
* Online Moodle Quiz 1 (20 Questions) – 10%
* Online Moodle Quiz 1 (20 Questions) – 10%
* Problem Solving and Data Analysis – 10%
* Examination (2 Hour) – 50%

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 | 9.1 | 9.2 |
| --- | --- | --- | --- | --- | --- |
| Private Study | **x** | **x** | **x** | **x** | **x** |
| Lectures | **x** | **x** | **x** |  | **x** |
| Workshops | **x** | **x** | **x** | **x** |  |

**Module learning outcomes against assessment methods:**

| **Module learning outcome** | 8.1 | 8.2 | 8.3 | 9.1 | 9.2 |
| --- | --- | --- | --- | --- | --- |
| Moodle Quizzes | **x** | **x** | **x** |  | **x** |
| Problem Solving |  |  | **x** | **x** | **x** |
| Examination | **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) |
| --- | --- | --- | --- | --- |
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