1. KentVision Code and title of the module

BIOS8690 – Research Skills in Biomedicine

## 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 7

## 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)

Autumn

## 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:

 MSc Biomedicine

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 conceptual understanding, critically appraise and analyse research data comprehensively;

8.2 Demonstrate thorough understanding and apply computational and bioinformatics techniques to research questions;

8.3 Place widely-applied research skills extensively in a subject-specific context of biomedicine.

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

9.1 Present research findings orally to scientific peers;

9.2 Work both independently and as part of a research group using peer support, diplomacy and collective responsibility;

9.3 Manage time and workload in order to meet personal targets and imposed deadlines;

9.4 Use of appropriate technology to retrieve relevant information from appropriate sources and databases.

## A synopsis of the curriculum

This module will develop the advanced research skills that are required in modern biological research and transferable across biological research disciplines. This will include the development of skills in bioinformatics, statistical analysis, research publication and peer review through a combination of online exercises, seminars and group work. These skills will be discussed, enhanced and contextualised in tutorials that consider their application of these skills through consideration of literature and case studies drawn from the field of biomedicine.

## 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: 22

Contact Hours: 128

Total: 150

## Assessment methods

13.1 Main assessment methods

* Peer Review Assignment – 50%
* Research Proposal Presentation – 50%

13.2 Reassessment methods

* Like-for-like

## 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* | *9.3* | *9.4* |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seminars and tutorials | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| Workshops |  | **X** |  |  |  |  | **X** |
| Self-study | **X** | **X** | **X** | **X** | **X** | **X** | **X** |

**Module learning outcomes against assessment methods:**

| **Module learning outcome** | *8.1* | *8.2* | *8.3* | *9.1* | *9.2* | *9.3* | *9.4* |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Peer Review Assignment | **X** |  |  | **X** |  | **X** |  |
| Research Proposal Presentation | **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) |
| --- | --- | --- | --- | --- |
| 16 Dec 2021 | Minor | Sept 2022 | 13-14 | No |
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| Revised FSO Jan 2018 |