1. **Title of the module**

BIOS8570 (BI857) - Cancer Research in Focus

1. **School or partner institution which will be responsible for management of the module**

Biosciences

1. **The level of the module (Level 4, Level 5, Level 6 or Level 7)**

Level 7

1. **The number of credits and the ECTS value which the module represents**

15 credits (7.5 ECTS)

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

Spring

1. **Prerequisite and co-requisite modules**

None

1. **The programmes of study to which the module contributes**

MSc Cancer Biology (core)

MSc Biotechnology and Bioengineering (optional)

MSc Biomedicine (optional)

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

8.1 Demonstrate knowledge and critical understanding of current and emerging issues in cancer biology and therapy.

8.2 Understand and critically evaluate modern cancer research and its application to solve research problems.

8.3 Design experiments and research projects within a biological research context.

8.4 Critically evaluate and interpret biological data.

8.5 Organise and present complex experimental data.

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

9.1 Organise information clearly and present information, adapt for different audiences.

9.2 Interpret data, marshal information from published sources, and critically evaluate own research and that of others.

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

9.4 Manage time and workload management in order to meet personal targets and imposed deadlines.

9.5 Use appropriate technology to retrieve, analyse and present scientific information.

1. **A synopsis of the curriculum**

The module aims to develop understanding and analytical skills in order to fully embed students within the culture of cancer research. Based around seminars and interactive workshops, the initial stages of the module will involve an intensive rotation of seminars covering recent key developments in the field of cancer, delivered by experts, accompanied by critical evaluation and analysis of research articles exploring these research themes. Students will analyse, present and discuss the relevant research literature. They will gain experience in scientific design, literature analysis, scientific communication and the analysis and interpretation of complex experimental data.The later stages will focus on the students' own extended research project and will involve the preparation of a research proposal.

1. **Reading list (Indicative list, current at time of publication. Reading lists will be published annually)**

The reading list will comprise research articles from key scientific journals in the cancer research field, which will be used to drive a case-study based approach to learning. Students will be provided with their own copies of this reading material, but in some cases they will be set tasks for receiving appropriate journal articles to which we already have access through the Templeman Library.

1. **Learning and teaching methods**

*Total contact hours:* 40

*Private study hours: 110*

*Total study hours: 150*

1. **Assessment methods**
	1. Main assessment methods

~~Essay in the style of “Nature Views and Analysis” (1,500 words, 25%)~~

Lab practical report (1,500 words, 50%)

Independent research proposal (3,000 words, 50%)

13.2 Reassessment methods

Like-for-like

1. **Map of module learning outcomes (sections 8 & 9) to learning and teaching methods (section12) and methods of assessment (section 13)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | *8.1* | *8.2* | *8.3* | *8.4* | *8.5* | *9.1* | *9.2* | *9.3* | *9.4* | *9.5* |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |  |
| Seminars | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| Self-study | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| **Assessment method** |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Lab practical | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| Research proposal | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |

1. **Inclusive module design**

The School 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

1. **Campus(es) or centre(s) where module will be delivered**

Canterbury

1. **Internationalisation**

Biosciences is an international discipline. This module presents subject-specific knowledge, research approaches and techniques, generated, developed and refined by scientists around the world. Mastery of the learning outcomes will equip students to apply the theories and techniques of the module in a wide range of international contexts. In compiling the reading list, consideration has been given to the range of texts that are available internationally and a selection has been identified to complement the delivery of the material. The School of Biosciences is an international community of students and staff. Group work and self-study will naturally draw on the international make-up of the student body; the module teaching team includes members with international experience of teaching and research collaboration.

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of the delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
| 23/01/2019 | Major  | September 2019 | 9, 10, 11, 12, 13, 14 |  |
|  |  |  |  |  |

Revised FSO Jan 2018