Confirmation that this version of the module specification has been approved by the School Learning and Teaching Committee:

……… LTC Biosciences School 18.3.15 ………….(date)

**MODULE SPECIFICATION**

1. **Title of the module**

BI660 Animal Adaptations

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

Canterbury College

1. **Start date of the module**

September 2015 (Revised version start date September 2009)

1. **The number of students expected to take the module**

20

1. **Modules to be withdrawn on the introduction of this proposed module and consultation with other relevant Schools and Faculties regarding the withdrawal**

Not Applicable

1. **The level of the module (e.g. Certificate [C], Intermediate [I], Honours [H] or Postgraduate [M])**

Honours H

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

15 Credits (7.5 ECTS Credits)

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

Term 1 and 2. (Weeks 1-30)

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

There are no prerequisite or co-requisite modules

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

BSc Anima Science and BSc (Hons) Animal Biology and Wildlife Conservation

1. **The intended subject specific learning outcomes**

On successfully completing the module students will be able to:

1. Develop systematic understanding enabling them to compare and contrast adaptations of a range of animals that enable them to live in extreme conditions of, for example, temperature, humidity, altitude
2. Critically evaluate adaptations of a range of animals for an aquatic lifestyle
3. Analyse, assess develop and sustain arguments regarding adaptations of animals in respect of predator-prey relationships
4. Critically evaluate adaptations of domestic animals selected to suit human purposes
5. **The intended generic learning outcomes**

On successfully completing the module students will be able to:

1. Apply methods and techniques learned to scan and organise data, abstract meaning from information and share knowledge with others
2. Work and study independently utilising initiative and taking personal responsibility
3. Communicate information, ideas, problems and solutions to specialist and non specialist audiences
4. **A synopsis of the curriculum**

The Indicative content will include topics such as:

The anatomical, physiological and behavioural adaptations animals have evolved to survive and thrive in a range of habitats and conditions.

Adaptations of the locomotor, sensory, circulatory, respiratory, digestive, reproductive and excretory systems.

Adaptations in metabolism and homeostatic control

Behavioural adaptations.

Ecological conditions such as polar, desert, altitude, marine and freshwater aquatic.

A range of animals from different taxonomic classes.

Adaptations of a variety of species in relation to the ‘evolutionary arms race’ of predators and their prey the adaptive effects of artificial selection by man for particular purposes

1. **Indicative Reading List**

Eckert, R, Randall, D J, Burggren, W & French, K (2001) *Eckert: Animal Physiology,* 5th ed, New York:W H Freeman

Hill, R, Wyse, G A & Anderson, M (2012) *Animal Physiology,* 3rd ed, Massachussetts: Sinauer Associates Inc

McClanahan T, Cinner J, (2011) *Adapting to a changing environment* New York:Oxford University Press

Schmidt-Nielsen, K (1997) *Animal Physiology: Adaptation and Environment*, 5th Edition, Cambridge:Cambridge University Press

1. **Learning and Teaching Methods, including the nature and number of contact hours and the total study hours which will be expected of students, and how these relate to achievement of the intended module learning outcomes**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Hours** | **Subject LOs** | **Generic LOs** |
| Lectures | 21.5 | 11.1, 11.2, 11.3, 11.4 | 12.1, 12.2, 12.3, |
| Seminars | 21.5 | 11.1, 11.2, 11.3, 11.4 | 12.1, 12.2, 12.3, |
| Workshops | 2 | 11.2, 11.4 | 12.1, 12.2, 12.3, |
| Independent study | 105 | 11.1, 11.2, 11.3, 11.4 | 12.1, 12.2, 12.3, |
| **Total hours** | 150 |  |  |

1. **Assessment methods and how these relate to testing achievement of the intended module learning outcomes**

This module will be assessed by 75% coursework and 25% examination

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Weighting** | **Subject LOs** | **Generic LOs** |
| Written assignment  2000 words | 50% | 11.1, 11.2 | 12.1, 12.2, 12.3 |
| An essay focused on the adaptations of a range of animals | | | |
| Time constrained assessment under exam conditions  1.5 hours | 25% | 11.3 | 12.1, 12.2, 12.3 |
| A Time constrained assessment focused on predator-prey relationships | | | |
| Case study analysis  1500 words | 25% | 11.4 | 12.1, 12.2, 12.3 |
| Students will complete a case study analysis focused on the adaptations of domestic animals | | | |

1. **Implications for learning resources, including staff, library, IT and space**

There are no additional implications for the HE study centre or LRC.

1. **The Collaborative Partner recognises and has embedded the expectations of current disability equality legislation, and supports students with a declared disability or special educational need in its teaching. Within this module we will make reasonable adjustments wherever necessary, including additional or substitute materials, teaching modes or assessment methods for students who have declared and discussed their learning support needs. Arrangements for students with declared disabilities will be made on an individual basis, in consultation with the Collaborative Partner’s disability/dyslexia support service, and specialist support will be provided where needed.**
2. **Campus(es) or Centre(s) where module will be delivered:**

Canterbury College

**If the module is part of a programme in a Partner College or Validated Institution, please complete sections 20 and 21. If the module is not part of a programme in a Partner College or Validated Institution these sections can be deleted.**

1. **Partner College/Validated Institution:**

Canterbury College

1. **University School responsible for the programme:**

Biosciences School