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**

BI661 Animal Reproduction

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**

10

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 **Modules to be withdrawn on the introduction of this proposed module and consultation with other relevant Schools and Faculties regarding the withdrawal**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 (Hons) Animal Science

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

On successfully completing the module students will be able to:

1. Acquire a detailed and coherent knowledge of the modes of reproduction in vertebrate and invertebrate animals
2. Develop a systematic understanding of the factors affecting reproductive efficiency in placental mammals
3. Apply methods and techniques learned to critically evaluate the advances in reproductive technology in animal breeding
4. Critically evaluate ethical issues in the use of reproductive biotechnology in research and practice
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. Manage their own learning whilst working in groups and teams
3. Communicate information to both specialist and non-specialist audiences
4. Critically evaluate arguments, assumptions and concepts to make judgements
5. Work and study independently utilising initiative and taking personal responsibility
6. **A synopsis of the curriculum**

The Indicative content will include topics such as:

Reproduction in animals

Reproduction in animals in a variety of areas in industry, including agriculture, animal breeding, conservation and veterinary science.

Awareness of methods and issues in the use of reproductive biotechnology.

A variety of animals, from simple organisms to placental mammals.

Comparing modes and strategies of reproduction such as asexual and sexual reproduction, parthenogenesis, oviparity, ovoviviparity and viviparity.

Reproduction in placental mammals through examination of factors affecting and strategies for maximising reproductive efficiency, relevant to animal breeding industries and conservation.

The roles of advances in reproductive technology, such as superovulation, artificial insemination, embryo transfer, genetic analysis and cloning,

Animal breeding practice.

Positive and negative aspects of a range of biotechnological methods

Conflicting viewpoints regarding ethical issues in reproduction science.

1. **Indicative Reading List**

Beaumont A R, Boudry P (2010) *Biotechnology and Genetics in Fisheries and Aquaculture*, New York:Wiley Blackwell

Dahnof L T (2009) *Animal Reproduction: New Research Developments*, New York: Nova Science

Plant T, Zeleznik A, (2015) *Knobil and Neill’s Physiology of Reproduction*, 4th revised ed, London:Academic Press Inc

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, 12.4, 12.5 |
| Seminars | 21.5 | 11.1, 11.2, 11.3, 11.4 | 12.1, 12.2, 12.3, 12.4, 12.5 |
| Workshops | 2 | 11.1, 11.2, 11.3, 11.4 | 12.1, 12.2, 12.3, 12.4, 12.5 |
| Independent study | 105 | 11.1, 11.2, 11.3, 11.4 | 12.1, 12.2, 12.3, 12.4, 12.5 |
| **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 100% coursework

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Weighting** | **Subject LOs** | **Generic LOs** |
| 2 hr examination | 50% | 11.1, 11.2 | 12.1, 12.3, 12.4, 12.5 |
| 2 hours examination focusing on reproduction and reproductive efficiency |
| Portfolio of notes and debate | 50% | 11.3, 11.4 | 12.1, 12.2, 12.3, 12.4, 12.5 |
| Portfolio of written notes for, and participation in, a whole-class debate to discuss current issues including reproductive Technology |

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