MODULE SPECIFICATION PROFORMA

Module Title:	Equine Reproduction & Young Stock Management	**Level**	6	**Credit Value:**	20

Module code:	ANM610	**Is this a new module?** Yes	**Code of module being replaced:**	ANM605

Cost Centre(s):	GAAN	JACS3 **code**:	D740

With effect from:	September 19

School:	Social & Life Sciences	**Module Leader:**	Fernando da Mata / Amy Bannister

Scheduled learning and teaching hours	50 hrs
Guided independent study	150 hrs
Placement	0 hrs
Module duration (total hours)	200 hrs

Programme(s) in which to be offered	Core	Option
BSc (Hons) Equine Science and Welfare Management	✓	☐

Pre-requisites
None

Office use only
Initial approval: June 17
APSC approval of modification: *Enter date of approval* Version: 1

Wrexham glyndŵr UNIVERSITY

MODULE SPECIFICATION PROFORMA

Module Aims
1. To introduce the anatomy and physiology of reproduction in the mare and stallion. 2. To consider the effect of modern reproductive techniques on reproductive success. 3. To investigate equine foaling and early development of the young horse. 4. To evaluate methods of handling and training of the young horse.

Intended Learning Outcomes

Key skills for employability

KS1	Written, oral and media communication skills
KS2	Leadership, team working and networking skills
KS3	Opportunity, creativity and problem solving skills
KS4	Information technology skills and digital literacy
KS5	Information management skills
KS6	Research skills
KS7	Intercultural and sustainability skills
KS8	Career management skills
KS9	Learning to learn (managing personal and professional development, self-management)
KS10	Numeracy

At the end of this module, students will be able to		Key Skills	
1	Critique the factors affecting fertility and reproductive success in the mare and stallion.	KS1	KS6
		KS3	
		KS4	
2	Critique modern reproductive techniques and their success.	KS1	KS6
		KS3	
		KS4	
3	Evaluate equine foaling and early development in the young horse.	KS1	KS6
		KS3	
		KS4	
4	Evaluate methods of handling and training in young horses.	KS1	KS6
		KS3	
		KS4	
Transferable skills and other attributes			

Study skills, writing skills, presentation skills, ICT skills, independent working and communication skills, research skills.

Derogations

None

Assessment:

Assessment 1: In-class test:
Students will answer a series of multiple choice and short answer questions relating to equine reproductive anatomy, physiology, fertility and foaling. An essay question will be completed based on early development of the young horse (Learning Outcomes 1, 2, 3).

Assessment 2. Presentation:
The presentation will be delivered based on breeding a horse for a specific discipline – the presentation will include the following as a minimum breeding aims for the discipline chosen, future career aims, mare requirements, choice of stallion, breeding methods (AI, embryo transfer, natural covering), costings (Learning Outcomes 3 & 4)

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1,2,3	In-class test	60	90minutes	2,400 equivalent
2	3,4	Presentation	40		1,600

Learning and Teaching Strategies:

This module will be delivered through formal lectures, tutorials, seminar sessions, study days and site visits. Practical sessions and laboratory work will be used where appropriate. Students will be encouraged to read round the subject and discuss this material during tutorial sessions.

Syllabus outline:

- Anatomy and physiology of the reproductive system in the mare and stallion
- Reproductive cycles in the mare and stallion
- Reproductive techniques (natural covering, artificial insemination, embryo transfer)
- Physiology of pregnancy
- Foaling preparation
- Parturition and neonatal care
- Lactation
- Growth and development in the foal
- Handling the young horse
- Early training of the young horse

- Breeding for specific disciplines (choice of mare / stallion, costings, qualities, future potential)

Bibliography:

Essential reading

Davies Morel, M.C.G. (2008) *Equine Reproductive Physiology, Breeding and Stud Management.* Oxfordshire: CABI.

Other indicative reading

Brinsko, S.P., Blanchard, T.L., Varner, D.D., Schumacher, J., Love, C.C, Hinrichs, K. & Hartman, D. (2019) *Manual of Equine Reproduction 3rd Edition*. Missouri: Mosby Elsevier.

Klimke, I & Klimke, R. (2015) *The basic training of the young horse. 3rd Edition*. London: JA Allen.

McGreevy, P. & McLean, A. (2010) *Equitation Science*. Chichester: Wiley-Blackwell.

Maxwell, R. (2001) *From birth to backing. The complete handling of the young horse*. Devon: David Charles.

Ochsenbauer, U. & Schmidtlein, B. (2016) *Foals and young horses: training and management for a well-behaved horse.* 5m Publishing.

Reference will be made to contemporary research articles from journals such as:

The Equine Veterinary Journal
Journal of Equine Veterinary Science
The Vet Record & In Practice
The Vet Times