

MODULE SPECIFICATION PROFORMA

Module Title:	Equine Health & Fitness	Level	5	Credit Value:	20
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Module code:	ANM518	Is this a new module?	YES	Code of module being replaced:	None
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Cost Centre(s):	GAAN	JACS3 code:	
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With effect from:	September 18
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School:	Social & Life Sciences	Module Leader:	Tamsin Young
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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	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Pre-requisites
None

Office use only

Initial approval: June 17

APSC approval of modification: *Enter date of approval* Version: 1

Module Aims

1. To explore common equine disease processes, their aetiology, pathophysiology, treatment and management.
2. To investigate the training of horses for given disciplines, and to understand associated physiological changes.

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

At the end of this module, students will be able to		Key Skills	
1	Evaluate conformation and health in horses.	KS1	KS8
		KS2	KS9
		KS3	
2	Critically examine a range of common equine diseases, their causal factors, suitable preventative treatments and likely management techniques.	KS1	KS6
		KS3	
		KS4	
3	Evaluate fitness plans compiled for horses for given disciplines.	KS1	KS6
		KS3	KS10
		KS4	
4	Understand the physiological response to exercise.	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

Indicative Assessment:

Practical – Students will assess health and fitness in horses, and undertake a practical assessment of static and dynamic conformation. They will demonstrate practical tasks necessary for maintaining good health in horses. These may include but will not be limited to measuring temperature, pulse and respiration and bandaging for support and minor injuries. An evaluation of items from the veterinary cupboard will also take place (Learning Outcome 1).

Report - Students will investigate an equine disease previously agreed with the tutor and compile a report which includes signs, aetiology, pathophysiology, treatment and management of the condition. They should critically evaluate the effectiveness of management techniques and treatment options (Learning Outcome 2).

Case Study – A fitness plan will be compiled for given horse for a chosen equestrian discipline. The plan will be a detailed evaluation of the build-up of exercise over time and will include an evaluation of the physiological changes in the horse's body (Learning Outcomes 3 & 4).

Guidance: Please indicate the type(s) of assessment (eg examination, oral, coursework, project) and the weighting of each (%). Normally, each intended learning outcome should be assessed only once.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1	Practical	25		1,200 equivalent
2	2	Report	25		1,000
3	3 & 4	Case Study	50		2,000

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:

Routine health care and its application in disease prevention

Recognising good / poor equine health
The veterinary cupboard and contents
Treatment of sick horses
Treatment of minor wounds
Worming horses

Pathophysiology of common equine disease processes to include:

- Laminitis
- Colic
- Equine Metabolic Syndrome/Cushings disease
- Tetanus
- Influenza
- Strangles
- Parasitic disease
- Emerging equine diseases

Equine fitness plans and physiological changes

- Roughing off and bringing back from rest
- Care and welfare of horses after work/ competition/ hunting
- Aims of training – leisure, competitive disciplines, physical / mental fitness, equine welfare
- Assessment of a horse's suitability for a discipline – type / breed, conformation, age, experience, temperament
- Assessment of fitness – physical condition, weight, heart and respiratory rate, recovery rate
- Fittening – compiling fitness programmes for specific disciplines that could include traditional fittening, interval training, road work, schooling, poles, grid work, jumping show jump / cross country courses, use of horse-walkers, treadmills, equine swimming pools.
- Equestrian disciplines may include dressage, show jumping, eventing, endurance, racing, hunting
- Physiological adaptation to exercise – cardiovascular, respiratory, muscular-skeletal, fatigue, dehydration

Bibliography:

Essential reading

Hastie, P. & Ivens, P. (2012) *The BHS Veterinary Manual. 2nd Edition*. Kenilworth: Kenilworth Press.

O'Brien, K. (2007) *Essential Horse Health: A Practical In-Depth Guide to the Most Common Equine Health Problems*. Devon: David & Charles Ltd.

Marlin, D. & Nankervis, K. (2002) *Equine Exercise Physiology*. Oxford: Blackwell Science.

Other indicative reading

Ballou, J.A. (2009) *Equine Fitness*. MA: Storey Publishing.

Bromily, M. (2007) *Equine Injury, therapy and rehabilitation*. 3rd Edition. Oxford: Blackwell Science.

Higgins, G. (2012) *Horse Anatomy for Performance. A practical guide to training riding and horse care*. David Charles.

Horace Hayes, M. (2002) *Veterinary Notes for Horse Owners*. London: Ebury Press.

Pilliner, S. & Davies, Z. (2000) *Getting horses fit. A guide to improving performance* Oxford: Blackwell Science.

Williams, G. (2014) *Horse Movement. Structure, Function & Rehabilitation*. London: J.A. Allen.

Reference will be made to current research articles in journals such as:

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