

## MODULE DESCRIPTOR

<b>MODULE TITLE</b>	The Equine Musculoskeletal System		
<b>MODULE CODE</b>	MR1218	<b>CREDIT VALUE</b>	20
<b>MODULE DELIVERY</b>	Semester		
<b>MODULE TUTORS</b>	Alison Northrop, Lisa Adjei		
<b>DATE APPROVED</b>	April 2008	<b>VERSION NUMBER</b>	1
<b>DEPARTMENT</b>	School of Built & Natural Environment	<b>PARTNER INSTITUTION</b>	Myerscough College

### RELATIONSHIP WITH OTHER MODULES

<b>Co-requisites</b>	None	<b>Pre-requisites</b>	None	<b>Excluded Combinations</b>	None
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### MODULE AIMS

To understand and clearly define the anatomical features of the horse and develop the ability to identify the anatomy of the musculoskeletal system. The student will develop the ability to identify anatomical features and relate its structure to function.

### MODULE CONTENT

#### 1 Anatomic nomenclature

- 1.1 The skeleton
- 1.2 Superficial muscles
- 1.3 Deep muscles
- 1.4 Tendons and ligaments
- 1.5 Positional and directional terms

#### 2 Conformation

- 2.1 General conformation
- 2.2 Types and breeds

#### 3 The skeletal system

- 3.1 Axial and appendicular skeleton
- 3.2 Types of bone
- 3.3 Microscopic anatomy
- 3.4 Joints

#### 4 The structure and function of muscles, tendons and ligaments

- 4.1 Composition
- 4.2 Microscopic anatomy
- 4.3 Control of movement and posture

## LEARNING OUTCOMES

On successful completion of this module a student will be able to:

1	Describe the anatomical features of the musculoskeletal systems
2	Assess suitable conformational traits in relation to breed and discuss conformational faults
3	Justify the anatomy of the skeletal system in relation to function and determine limitations
4	Recognise the composition of the muscles, tendons and ligaments and relate it to function
5	Work independently to produce written reports

## TEACHING AND LEARNING STRATEGY

Delivery will comprise of core theory lectures, practical sessions, seminars and tutorials. Visits/visiting speakers may be encompassed to broaden appreciation of specific training methods.

## INDICATIVE CLASS CONTACT

Lecture 3 hours per week plus 2 hours per week practical/tutorial sessions.

## INDICATIVE ASSESSMENT

Number of Assignments	Assessment	Weighting %	Type/Duration/ Wordcount (indicative only)	Learning Outcomes being assessed
1	Assignment 1	25%	1500 words	1 and 2
1	Assignment 2	25%	1500 words	4 and 5
1	End of module exam	50%	Two hours	1-4

## MODULE PASS REQUIREMENTS

For successful completion of the module, each individual element of assessment must be passed at 40%.

## **BIBLIOGRAPHY AND LEARNING SUPPORT MATERIAL**

- Auty, I. (2000) *The BHS Complete Manual of Stable Management*. Kenilworth Press. Buckinghamshire, UK.
- Budras, K. Sack, W.O. and Röck, S. (2003) *Anatomy of the Horse; An Illustrated Text*. Mosby Wolfe
- Coumbe, K. (2001) *Equine Veterinary Nursing Manual*. Blackwell Scientific
- Davies, Z. (2005) *Introduction to Horse Biology*. Blackwell Publishing
- Frandsen, R.D. (1998) *Anatomy and Physiology of Farm Animals*. Lea and Fabiger
- Hastie, P.S. (2001) *The BHS Veterinary Manual*. Kenilworth Press
- Hackett, M.S. and Sack, W.O. (2001) *Rooney's Guide to the Dissection of the Horse*. Seventh Edition Veterinary Textbooks
- Mair, T. Love, S. Schumacher, J. and Watson, E. (1999) *Equine Medicine, Surgery and Reproduction*. W.B. Saunders
- Marlin, D. and Nankervis, K.J. (2002) *Equine Exercise Physiology*. Blackwell Science
- McIlwraith, C.W. and Trotter, G.W. (1996) *Joint Disease in the Horse*
- Piliner, S. Davies, S. (2006) *Equine Science*. Blackwell Publishing
- Reece, W.O. (1997) *Physiology of Domestic Animals 2<sup>nd</sup> Edition*. Lippincott Williams and Wilkins
- Robinson, N.E. (1997) *Current Therapy in Equine Medicine 4*. W.B. Saunders
- Stashak, T.S. (1987) *Adams' Lameness in horses 5<sup>th</sup> Edition*. Lippincott Williams and Wilkins
- Taylor, F.C.R. & Hillyer, M.H. (1997) *Diagnostic Techniques in Equine Medicine*
- Wanless, M. (1996) *For the Good of the Horse*. Kenilworth Press
- Wych, S. (1998) *Understanding the Horse's Back*. Crowood Press Ltd

## **JOURNALS**

Animal  
Applied Animal Behaviour Science  
Equine Veterinary Journal  
Equine and Comparative Exercise Physiology  
The Veterinary Journal  
Veterinary Record