

Centaur Biomechanics

Presents

Equine Biomechanics Short Course 2012

Monday 2nd April – Wednesday 4th April 2012

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Warwickshire College and Centaur Training & Livery

3 days of interactive study combining both theory and practical sessions with the end result being a greater understanding in to the application of biomechanics within the equine world.

Course Guide 2011 / 2012

Russell Guire of Centaur Biomechanics



Course Details:

Date	Monday 2 nd April – Wednesday 4 th April (inclusive)
Location	Warwickshire College, Moreton Morrell and Centaur Training and Livery, Moreton Morrell
Numbers	A maximum of 13 students per course
Fees	£350 plus VAT (excludes accommodation)
Closing Date	March 1 st 2012

Introduction:

Biomechanics is one of the youngest branches of equine exercise physiology and as a result the world of biomechanics is ever changing and rapidly developing and proving its worth as a useful tool in both a clinical and sport's setting. With new research methods comes greater understanding which can then be applied to the horse and rider to help aid diagnosis and or help improve performance and reduce the risk of injury.

With the horse continually being used for top level performance does sadly have its limitations. The demands placed on both the horse and the support team are greater now than they have ever been before. The major determinates of effective function and performances are force tolerance, skeletal mobility and gait efficiency. The application of the principles associated with biomechanics will enable appropriate assessment, management and training of the sports horse so that superior performance and reduced injury risk may be achieved.

Learning Outcomes:

- Understand the role of biomechanics in both a clinical and sports setting
- Discuss the functions of the associated structures involved in locomotion
- Discuss biomechanics in the field with every day horses
- Analyse research methods
- Analyse the mechanics of the jumping and dressage horses

Course Delivery:

The course has been designed and will be delivered by Russell Guire of Centaur Biomechanics. Centaur Biomechanics is a leading company which specialises in the study of horse and rider interaction. Centaur has designed products to help improve rider position and has headed up 24 research projects looking at the function of the equine gait in various situations, surface, saddles, shoes alike. Centaur leads the way in offering biomechanics to horses and riders of all levels from riding club through to Olympic level. Please look at www.centaurbiomechanics.co.uk for more information.

Private Study:

Please note that all students attending this course should have a basic understanding of anatomical landmarks and gait patterns.

Useful books:

Equine Locomotion, Back and Clayton

Equine Exercise Physiology, Marlin and Nankervis

Lameness in horses, Adams

Equine Veterinary Journal – Equine locomotion Special Edition

Dynamic Horse, Clayton

Teaching Method:

The three days will be split up in to 50% theory, 40% practical and 10% seminar / forum

Course Content – Subject to alterations

Day 1:

Introduction to anatomy and physiology – horse's structure, skeleton, muscles, tissues, functions biomechanics

Biomechanics of the fore limb, hind limb, hoof and back

Influence of the rider, elite v's novice rider the differences and the effect both have on horses movement

Lameness evaluation

Injuries in sport horses

Day 2:

No Foot No Horse

Shoeing the horse for performance and the field

Practical lameness evaluation

Practical looking at the horse in the stable too the competition ring – management programmes

Practical evaluation of horses in hand versus ridden

Summary of the day and findings in open seminar

Day 3:

Current tools that are available to help aid understanding, High speed cameras, gait analysis, biomechanics etc

Short assessment detailing all of the content from the three days.

Questions and answers

Accommodation:

Accommodation is not provided within the course fee however we do have good links with local B and B's and hotels:

- Redlands Bed and Breakfast, Gaydon, 01926 651241
- Kings Head, Welsbourne, 01789 840206

How to find us:

Centaur Biomechanics is located in Moreton Morrell near Warwickshire College, five minutes from the M40.

From the South:

M40 towards Birmingham. Leave the M 40 at 13, at the T Junction turn left signposted Stow. Follow this road for ½ mile then turn right signposted Moreton Morrell and Ashorne. Follow this road for approximately 1 mile over the Ashorne cross roads. Over a small bridge and the Centaur Biomechanics is on the right.

From the North:

M40 towards London. Leave the M40 at Junction 14, signposted Lemington Spa, straight over the little roundabout. At the main round about turn right. Follow this road for approximately 2 miles. Once over the motorway continue for ½ mile then turn right signposted Moreton Morrell and Ashorne. Follow this road for approximately 1 mile over the Ashorne cross roads. Over a small, new bridge and Centaur Biomechanics is on the right.

By Rail:

The nearest station to Centaur Biomechanics is Lemington Spa or Warwick. On arrival at either station you can pick up a taxi or bus service to Moreton Morrell.

By Air:

The nearest airport to the centre is Birmingham International. On arrival you can either take a train to Leamington Spa or a taxi.

Booking Form

Centaur Biomechanics, Equine Biomechanics Short Course

To register for the Equine Biomechanics course being held at Warwickshire College and Centaur Training & Livery please complete the booking form and return along with payment to the address at the foot of the form.

Name	
Address	
Telephone No:	
Mobile	
Email	

Payment Details (Course Fee Include VAT = £ 420.00)

Card Number																	
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Valid From						Expiry Date						Issue		Security No			
M	M	Y	Y			M	M	Y	Y								
Card Type																	
Visa		MasterCard				American Express				Switch							

Please make cheques payable to Centaur Biomechanics LTD

Please return your payment along with the booking form to Centaur Biomechanics, 25 Oaktree Close, Moreton Morrell, Warwickshire, CV35 9BB on receipt you will receive confirmation of receipt of form and payment via email along with an electronic receipt.