

COURSE OVERVIEW

Title	Global Equine Nutrition I
Anivado Course Code	GEN01-EN
Anivado Level	Level 3
AIM/Summary	<p>*for ANIVADO level descriptors click here</p> <p>This course is aimed at an international audience which already has a good basic understanding of equine nutrition and feeding science. The principles of equine digestive physiology, digestion, feed stuffs, nutrient analysis and feeding systems will be discussed in depth in the context of recent advances in knowledge and in relation to various geographical environments.</p>

MODULE OVERVIEW

1. Natural Feed Intake of Horses

This Module takes you through the development of Equids into the Herbivores they are today. It examines their species-specific feeding strategies and how they have facilitated the equid's survival through the ice ages. Examining the origins and mechanisms of equine feed intake behaviour to fulfil physiological and behavioural requirements forms the basis for understanding equine nutrition.

2. Digestive Physiology

This Module takes you through the digestive tract of the horse. You will explore the physiology of feed intake and mastication as well as the physical layout and processes of transporting feed chyme through the foregut and hindgut. This Module does contain pictures of internal digestive organs.

3. Feed Types and Characteristics

Within this Module you will gain an overview of feed for horses, categorised according to concentrates, forages and supplementary feedstuffs. We follow the process from harvest to final product and introduce you to feed chemistry in relation to plant biology and in relation to analysis methods. A dynamic database of feedstuffs from around the world will be available which continues to grow.

4. Digestive Processes

Module 4 integrates the knowledge from the previous Modules into digestive process and outcomes. Nutrient breakdown and absorption will be discussed in detail as well as methodologies to measure these processes. Applied examples from publishes will be introduced.

5. Feed Requirements (Water, Forage, Energy)

Feed and water provide energy and nutrients in a physical form which meet the species-specific requirements of an animal. This Module will concentrate on water and forage requirements for horses as well as introducing the concept of energy, energy metabolism processes and how this relates to energy requirements.

6. Nutrient Requirements (Protein, Minerals, Vitamins)

In this Module you will explore the physiological needs of horses in relation to protein, minerals and vitamins. Various recommendations and systems around the world will be introduced.

7. Ration Calculation

This Module will introduce you to basic ration calculations and evaluations. The body-condition of the animal is the starting point for assessing the current status of an animal followed by the balancing of estimated nutrient intake against requirements. Correct calculation is important, but correct interpretation and evaluation of results, through in-depth knowledge and understanding of physiological and ethological species-specific needs, is vital.

8. Practical Ration using Online Calculators

Advanced ration calculators are available online but require correct skills and understanding for practical application in ration evaluation. This Module will give you an in-depth introduction to one system called FRASC, which incorporates Units from all major Equine Feed Requirement Systems around the world.

9.	Nutrition and Welfare
<p>This concluding Module brings together nutritional understanding gained within this course and looks at its application to equine welfare. Key aspects of Health and Welfare are introduced from a nutritional perspective. In conclusion take home messages are given, highlighting the extend of knowledge and understanding presented in relation to practical application.</p>	

COURSE DETAILS	
COURSE LEADER	Dr Andrea D. Ellis
COURSE TUTORS	Dr David van Doorn, Dr Andrea D. Ellis
Pre-requisite Knowledge	<p>Level 2 Knowledge and Understanding of Equine Nutrition equivalent to a 1-2nd Year Degree Course or advanced vocational studies in Horse Feeding are required. Alternatively, students with degree level experience in Animal Nutrition and Nutritional Biology who wish to specialise in Equine Nutrition are welcome. This course is roughly equivalent to 3rd/4th Year Bachelor Degree level to 1st Year Masters level.</p>
Post-course Expected Outcomes	<p>Following this course, you should have a good in depth understanding of equine ingestive and digestive physiology and equine nutritional needs and requirements. You should be able to carry out basic ration calculations from various international systems and understand the principles behind these. A basic evaluation of rationing in relation to health and welfare should be within your scope of understanding but through this course you will not have the depth of knowledge and understanding to cope with more complex nutritional issues or rationing.</p> <p>Key Skills taught:</p> <ul style="list-style-type: none"> • Basic Mathematics for Ration Calculations; • Using Spreadsheets and Formulas; • Using an Online Ration Calculator; • Critical thinking and Evaluation; • Interpreting Scientific Research.
Format	9 Modules; Multiple Units per Module; End of Module Quiz; *for IT requirements click here
Language	Full English course
Specified Limited Access Time	<p>Limited Access Time for the Course is calculated as a maximum 30 Day Access per Module = 270 days after Payment. There is no individual limit on Module time as long as all are completed within the overall Course Time Limit. Each module becomes available as you complete the previous Module Quiz and remains live until the specified limited Access time has been used up.</p> <p>*for specifications of terms click here</p>
Learning Resources	<p>Online lectures; Supportive Material; Exercises; End of Module Quiz;</p> <p>*for generic course work-flow click here</p>
Study Time	<p>Start any time after Payment. Estimated time: 6-8 months. We recommend a minimum study time of 2 weeks per Module at a rate of 8 hours per week.</p>
Interaction	Self-Study: News Forum; Feedback Questionnaire; Quiz and Results generated online; FAQ section; For problem solving please contact us;
Qualifications:	<p>ANIVADO Course Completion Certificate upon successful completion of all Module Quiz's; CPD Certificate as per arrangement with relevant Employers/Institutions.</p>

Accreditation*	This online course has been accredited with 144 PE points for continuing education (horses) by PE-online . PE- veterinarians is the organization who on behalf of the Dutch Royal Society of Veterinary Medicine (KNMvD) accredits live and online education activities for vets.	
	If you feel your institution should accept this course for CPD please do not hesitate to contact us to discuss this further	
	*see our institutions terms and conditions here	
Optional Assessment	Not currently available:	Contact us if you wish to discuss tailor-made assessments for your students
ANIVADO Equine Nutrition Diploma III	Available under Add-Ons:	Not at this moment
Course Cost	€340 (incl. VAT)	

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