

Module Descriptor Form

1	Awarding Body	Askham Bryan College
2	Lead Subject Area	Equine
3	Module title	Equine Health and Nutrition
4	Module Code	EQ5001
5	Module level	5
6	Module credits	20
7	Date Module to Commence	September 2022
8	Programmes on which module is Core	EFdSc Equine Science and Management FdSc Equine Science and Management
9	Aims of the Module	The aim of the module is to give students an understanding of the common diseases and disorders that they will encounter when working in the equine industry. Furthermore, they will evaluate methods of treatment, prevention and management in relation to both health and nutrition. Students will be able to evaluate different sources of nutrition and be able to formulate a ration for a range of equines.
10	Rationale for Module	High welfare standards are paramount when working with equines. The module will cover a range of infectious diseases and non-infectious disorders to give students an understanding of their causes. From this, students will be able to evaluate up to date methods used to manage, prevent and treat the disorders. Correct nutrition is of great importance when working with both equine athletes as well as companion animals. Students will be able to use their knowledge of digestion and ration formulation to create effective diets for a range of horses. Completing placement hours will allow students to use their knowledge gained from the course and gain practical experience ready for industry.
11	Module description	A combination of practical, presentation and written work will be used to assess the students' knowledge and understanding of equine health and nutrition. Agents of disease, the body's response, and treatment and management options will be discussed. Non-infectious disorders along with treatment and prevention strategies will be evaluated and links to nutrition reviewed. Ration formulation for different equine needs will be undertaken and feed sources evaluated.
12	Semester	All Year

13	Learning Outcomes	LO1 Appraise infectious and non-infectious disease for a given population of equids
		LO2 Evaluate treatments, prevention and management strategies for a range of diseases and disorders
		LO3 Explain the digestive process in the horse with reference to mental and physical welfare
		LO4 Devise and evaluate rations for horses with specific nutritional needs
14	Pre-requisite Modules	None
15	Co-requisite Modules	None
16	Banned Combinations	None
17	Is Module Compensatable	Yes
18	Indicative Content	LO1: Causes of infectious disease, including bacteria, virus, fungi and parasites Transmission routes / cycles Immune response to infectious agents Causes of non-infectious disease including neoplastic, nutritional, hormonal/metabolic, traumatic / injuries and genetic Factors contributing towards infectious and non-infectious disease development Clinical signs of disease Pathology and development of a range of diseases LO2: Range of pharmaceutical treatments discussed including antibiotics (and antibiotic resistance), vaccinations, anthelmintics and anti-virals Biosecurity, hygiene and methods to reduce transmission Management of the horse including nutrition, diet and management/prevention of injuries LO3: Mechanical and enzymatic digestion and microbial fermentation will be reviewed LO4: Factors affecting nutritional requirements will be considered Develop a ration for a horse, including dietary calculations Evaluate feed sources suitable for horses

19	Inclusivity, access and student support	We are committed to ensuring that our programmes and modules are inclusive of all students including: international, part-time, mature, those from different socio-economic backgrounds (class) and those with protected characteristics according to the Equality Act 2010 (age, disability, gender reassignment, marriage/civil partnership, race, religion or belief, sex, sexual orientation). All lecture material will be available on the VLE for students in advance of the lecture. Lecture material will be designed for diverse learners under accessibility guidelines. An alternative assessment will be available for all students with a DSA, in line with recommendations in their individual needs assessment.
20	Link to the Digital Vision	The VLE will be utilised, along with online quizzes and tests to check for understanding. Lectures will be recorded online.
21	Total Contact Hours	48
	Lecture	18
	Seminar	6
	Tutorial	6
	Project Supervision	0
	Demonstration	6
	Practical classes/workshops	2
	Fieldwork	0
	External visits	0
	Work based learning / Placements	300
	Directed Learning	10
	Guided independent study	152 hours
22	Learning and Teaching Strategy	Students will receive lectures to outline key themes, which will be backed up by regular 1:1 tutorials, particularly for support with developing their practical assessments. As well as formal lectures, there will be demonstrations on feed analysis in the nutrition lab and dedicated seminar sessions towards species specific case studies. Tutorial sessions will be focussed on supporting students with assessment preparation.
23	Virtual Learning Strategy	All module resources will be available on the VLE, as will links to further reading, videos etc. Students will be encouraged to actively participate in online discussion forums. Formative assessment will take place regularly using online tasks on the VLE.

		PowerPoint slides and journal articles will be provided on the VLE. There will also be links to key websites and videos for students to use on the VLE.				
24	Opportunities for Formative Assessment	1:1 tutorials with assessment feedback and mock quizzes throughout the module to assess knowledge and understanding.				
25	Method of Summative Assessment	Ass No.	Method	Weighting	Mod. LO's	Prog LO's
		1	Infectious disease leaflet	50%	1 and 2	KU1, KU2, CIT1, CIT2, CIT3, CIT4, CIT5, PP5, E3
		2	Written report with ration formulation and viva	50%	3 and 4	KU1, KU2, CIT1, CIT2, CIT3, CIT4, CIT5, PP5, E3
26	Examination Period	N/A				
27	Method/s of reassessment	Written assessment covering failed learning outcomes				
28	Maximum Class Size	25				
29.1	Essential Reading (Books)	Frape, D. 2010. <i>Equine Nutrition and Feeding</i>. 4th ed. Oxford: Wiley-Blackwell Geor, R.J., Harris, P.A. and Coenen, M. eds. 2013. <i>Equine Applied and Clinical Nutrition. Health, Welfare and Performance</i>. Oxford: Saunders Elsevier.				
29.2	Recommended Reading (Books)	Ackerman, N. 2016. <i>Aspinall's Complete Textbook of Veterinary Nursing</i>. 3rd edition. Edinburgh: Elsevier. Committee on Nutrient Requirements of Horses. 2009. <i>Nutrient Requirements of Horses</i>. National Research Council, and National Academy of Sciences Dallas, S. and Jewel, E. 2014. <i>Animal biology and care</i>. 3rd ed. Wiley Blackwell.				
29.3	Essential Reading (Journals)	Equine Veterinary Journal				
29.4	Recommended Reading (Journals)	Journal of Animal Science				

		The Journal of Nutrition Journal of Equine Veterinary Science Journal of Equine Science Journal of Veterinary Medicine and Animal Health Veterinary Medicine and Science
29.5	Websites/ Online/ Government Resources etc	MSD Veterinary Manual https://www.msdsvetmanual.com/ www.who.int
30	Date Written/ Revised	18/02/2022 (Revised 16/6/22 KJ)
31	Module Leader Name	
32	Writing Team Names	Harriet Beal and Isobel Bannister