

Module Descriptor Form

1	Awarding Body	Askham Bryan College
2	Lead Subject Area	Cross College
3	Module title	Introduction to Animal Health
4	Module Code	XC0102
5	Module level	Y0
6	Module credits	20
7	Date Module to Commence	September 2022
8	Programmes on which module is available	Extended FdSc Animal Science and Management (core) Extended FdSc Management of Animal Collections with Conservation (core) Extended FdSc Management of Aquatics and Conservation of Oceans (core) Extended FdSc Wildlife and Environmental Conservation (core) Extended FdSc Applied Sustainable Land Management (core) Extended FdSc Canine Feline Behaviour and Training (core) Extended FdSc Precision Livestock Farming (core) Extended FdSc Agriculture (core) Extended FdSc Equine Science and Management (core)
9	Aims of the Module	This module provides fundamental concepts in understanding, assessing and promoting animal health that will be built upon in level 4 and 5 modules. Students will learn how to assess health and identify signs of good and poor health in a range of animals. Causes of ill health and risk factors that are associated with the development of disease will also be examined as well as put in context for different animal industries. A range of disease prevention methods will be discussed and applied to case study examples. Zoonotic diseases and their implications for both human and animal health will be explained.
10	Rationale for Module	With any aspect of animal work in any industry, having a strong knowledge and understanding of animal health for a range of taxa is essential. This module is designed to introduce students to the fundamentals of animal health and disease from which they can improve and build on in subsequent modules
11	Module description	This module provides the students with the basic knowledge and understanding of animal health and disease required when caring for animals in a range of industries. Signs of both good and poor health, causes of diseases and risk factors associated with the development of disease will be discussed. Methods of prevention of disease and spread of disease will be examined for a range of industries. Zoonoses

		will also be discussed, with examples, and the implications for both human and animal health will be explained.
12	Semester	1
13	Learning Outcomes	LO1 Describe signs of good and poor health in a range of taxa
		LO2 Identify causes of disease and risk factors associated with the development of disease
		LO3 Describe a range of measures that can be applied in industry to prevent disease occurrence and spread of disease
		LO4 Discuss the implications of zoonotic disease for both animal and human health
14	Pre-requisite Modules	None
15	Co-requisite Modules	None
16	Banned Combinations	None
17	Is Module Compensatable	Yes
18	Indicative Content	LO1 and LO2: Range of taxa for this module will include a selection of different taxa including mammals, reptiles, amphibians, birds, invertebrates and fish. Signs of good and poor health will be described in a range of taxa, including species specific parameters. Health checks will also be demonstrated by tutors and practiced by students on a selection of animals. Signs of poor health and specific diseases in a range of taxa will also be identified and described, as well as signs of pain. Causes of infectious disease (bacteria, viruses, fungi, prions, ecto- and endo parasites) will be introduced and basic aspects of their biology such as life cycle, and routes of transmission will be identified. Non-infectious diseases (e.g. nutritional, metabolic and vitamin deficiency/toxicity) will be described. Risk factors associated with the development of disease (e.g. temperature, humidity, diet, ventilation, hygiene etc.) will also be explained.

		LO3: A range of methods for disease prevention within a range of industries will be explained. Strategies such as biosecurity, quarantine, isolation, stocking density, vaccination etc will be introduced and the application for each in different disease and industry situations will be considered. Strategies to reduce the incidence of non-infectious disease will also be discussed e.g. diet management, enclosure design, substrate selection, water quality and lighting. LO4: Zoonotic disease will be defined. A wide range of examples from each taxa will be given, including notifiable diseases (e.g. rabies), bacterial (e.g. E.coli, Brucella, fish tank granuloma), fungi, (e.g. ringworm, cryptococcosis), virus (e.g. Orf, avian influenza), prion (e.g. BSE), parasites (e.g. Toxocara canis, nematodes). Different ways in which these are transmitted will be examined along with the most appropriate strategy to prevent spread between animals. The effects of zoonoses on humans and the animal species it infects will be discussed and compared. Within the module links are made to the Education for Sustainable Development goals https://www.gaa.ac.uk/docs/gaa/guidance/education-for-sustainable-development-guidance-executive-summary.pdf?sfvrsn=b121d281_8
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). Powerpoint presentations will be provided online prior to the lectures and all will follow accessibility regulations. Students requiring assistance in practical sessions will be risk assessed and allowances such as a 'buddy system' considered where appropriate. Allergies and phobias will be considered in practical sessions and students allowed to complete worksheets using digital resources where appropriate. 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 and Teams platforms will be utilised for dissemination of lecture resources. Where possible, planet e-stream and AR suite will be utilised.

21	Total Contact Hours	60				
	Lecture	24				
	Seminar	0				
	Tutorial	0				
	Project Supervision	0				
	Demonstration	0				
	Practical classes/workshops	36				
	Fieldwork	0				
	External visits	0				
	Work based learning / Placements	0				
	Guided independent study	140 hours				
22	Learning and Teaching Strategy	Students will receive lectures to outline key themes, such as health checks, common conditions and their treatments for a range of taxa, which will be backed up by regular 1:1 tutorials during workshops, particularly for support with developing their practical assessments. They will also take part in conducting visual and/or physical health checks of a range of taxa on the animal unit in order to apply their theoretical knowledge in a practical sense. Their findings will be reported to the group, tutor and, where appropriate, the keeper. They will peer assess and have tutor-led group discussions on what they have observed. They will also have the opportunity to complete health check forms and perform some practical diagnosis techniques such as faecal analyses				
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. Worksheets, relevant literature, powerpoints and other media will be made available on the VLE page for students to access outside of lectures.				
24	Opportunities for Formative Assessment	Consistent question and answer sessions will take place in every session for the students to practice and further knowledge. Opportunities for practise group presentation will be given.				
25	Method of Summative Assessment	Ass No.	Method	Weighting	LOs	Prog LOs
		1	1000-word poster	50%	1 and 2	KU1, KU2, CIT1, CIT3, CIT4

		2	15-minute group presentation of prevention plan	50%	3 and 4	E2, E4, E6, PP2, PP4 CIT5
26	Examination Period	No exam				
27	Method/s of reassessment	Written report during the reassessment window				
28	Maximum Class Size	24 – practical classes have a maximum of 12 for health and safety reasons so a group of 24 will allow the tutor to split the group into two for the practical classes assigned. One group goes on the animal unit for practical work and the other completes workbook/works on assignment and then they swap.				
29.1	Essential Reading (Books)	Williams, J. 2009. <i>The complete textbook of animal health and welfare</i> . Philadelphia: Saunders.				
29.2	Recommended Reading (Books)	Aiello, S.E. and Moses, M.A. 2016. <i>The Merck veterinary manual</i>. Germany: Merck Publications also available online at http://www.msdevetmanual.com/ Bauerfeind, R. 2016. <i>Zoonoses: Infectious diseases transmissible from animals to humans</i>. USA: ASM Press. Boden, E and Andrews, A. 2017. <i>Black's veterinary dictionary</i>. London: Bloomsbury Publishing. Cooper, B., Mullineaux, E. and Turner, L. 2011. <i>BSAVA textbook of veterinary nursing</i>. 5th ed. Oxford: Butterworth Heinemann. Judah, V. and Nuttall, K. 2016. <i>Exotic animal care and management</i>. 2nd ed. US: Delmar Cengage Learning. Lewbart, G.A. 2011. <i>Invertebrate medicine</i>. 2nd ed. USA: Wiley-Blackwell. Miller, L. and Hurley, K. 2009. <i>Infectious disease management in animal shelters</i>. USA: Wiley-Blackwell. Noga, E.J. 2010. <i>Fish disease: diagnosis and treatment</i>. 2nd ed. USA: Wiley-Blackwell. Sykes, J. and Greene, C. 2011. <i>Infectious diseases of the dog and cat</i>. 4th ed. USA: Saunders. Wobeser, G.A. 2005. <i>Essentials of disease in wild animals</i>. USA: Wiley-Blackwell. Peek, S.F. and Divers, T.J. 2018. <i>Rebhun's diseases of dairy cattle</i>. 3rd ed. USA: Saunders				
29.3	Essential Reading (Journals)	Journal of Small Animal Practice Journal of Veterinary Medicine and Animal Health				

29.4	Recommended Reading (Journals)	Veterinary Record Veterinary Times
29.5	Websites/ Online/ Government Resources etc	Government website for DEFRA guidelines on welfare, zoonoses, notifiable diseases and disease prevention. www.gov.uk
30	Date Written/ Revised	30/01/2022
31	Module Leader Name	
32	Writing Team Names	Isobel Bannister