**Course: BSc Zoo Biology (R0395F)**

**Module: Wild Animal Veterinary Science (M24756) Level: 6 Credit: 10**

**How do I contact my tutor?**

**James Brereton**

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| **What will I be expected to do by the end of this module?**  On successful completion of this unit the student will be expected, at threshold level, to be able to:   1. Detail, describe and discuss the key features of pathogenesis of infectious and non-infectious disease in captive wild animals and wildlife. 2. Analyse current treatment, prevention and control protocols used for named diseases of captive wild animals and wildlife. 3. Assess the effects of disease on the vertebrate body, with specific relevance to species of conservation concern. 4. Identify and critically appraise the specific epidemiology of named emerging infectious diseases that are important at the human wildlife interface.  |  | | --- | | **How does it ‘fit’ into my course?**  This module explores the link between husbandry, health, welfare and disease in both in and ex situ populations of wild animals. Emerging infectious diseases are of growing concern to conservation biologists and as such knowledge of their epidemiology is important to control and prevention plans. The new area of conservation medicine is a growing sector of employment for graduates and as such this module aims to equip students with fundamental knowledge of current disease threats and how they are being dealt with. | |
| **What will I be learning and where & when will that happen?**  Classroom-based lectures will be interspersed with practical classes and guest speakers to provide different forums for the presentation of essential information.  **Lesson Time:** Monday 11:20 to 13:20 |
| **How do I access the online classroom for this module?**  The ledge page for this unit is:  [Course: M24757 Wild Animal Veterinary Science 2024-25 (sparsholt.ac.uk)](https://ledge.sparsholt.ac.uk/course/view.php?id=2087) |

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| When and how will I be assessed?  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **No** | **Hand out**  **Wk: w/c** | **Hand in**  **Wk:** | **Returned work** | **Assessor** | **Assessment**  **Title and word limit** | **LO**  **Ref No.** | | **1** | **8th January 2025** | **5th May 2024** | 24th March 2025 | JB | Coursework (2000 words)  (worth 100% of module mark) | **1,2,3** |   **How is this assessment designed to support my learning?**  The assignments will enable you to develop your research skills and hone your academic skills in accordance with the academic expectations of the college. Practical assessment will allow you to demonstrate your vocational competence and ability to translate theoretical knowledge into practical situations.  **What graduate and employability skills will be developed in this module?**  Key transferable skills in academic writing, use of referencing and appraisal of scientific papers will be developed to a graduate standard throughout the course of the year. Students will be equipped with knowledge that can be applied in a range of industries relating to veterinary science as well as in higher degree programmes at Masters and Doctoral level. Students should make the most of the trips and practical opportunities to enhance their experience of the range of industries available for potential future careers. Students will have the opportunity to develop communication and information technology skills. Group work and presentations will develop your approach to integrating and synthesising key information on specific topic areas. |
| **What can I expect my tutor to do to support my learning?**  It will be helpful to review last year’s notes from Animal Health This will provide the foundation to many of the issues that we will be exploring in greater depth this year. It is helpful (and advisable) to try to carry out the extra reading every week whilst the topic is fresh in your memory. This information may aid you with your assessment, specifically if you can evaluate novel examples.  The sessions will combine lectures and discussion groups with follow-up questions and feedback. Field trips will allow students the opportunity to observe theory in practice. Practical work will integrate theory into practice. Support will be given by the tutor for assessment work with rough drafts encouraged (but they must be submitted a reasonable time before the final submission date). You will be critically marked on your use (and range of) information and ensuring that it has been referenced correctly using the APA 7th system. Please see the tutor if you have any queries regarding the use of information and referencing.  **Lesson Plan**  **PLEASE NOTE THIS IS A FLUID DOCUMENT AND THEREFORE SESSIONS MAY BE MOVED DUE TO VARYING CIRCUMSTANCES. You will be advised of practical session moves in advance.**   |  |  |  |  | | --- | --- | --- | --- | | **18th to 3rd Christmas Break** | | | | | 8th  Jan | Module intro, microbiology and notifiable diseases |  |  | | 15th  Jan | Potential emerging and future health issues in exotic pets and zoo animals |  |  | | 22nd  Jan | Infectious and non-infectious disease in captive wild animals/wildlife |  |  | | 29th  Jan | Directed study |  |  | | 5th  Feb | Introduction to pharmacology: treatment, prevention, and control |  |  | | **12th Feb Reading Break** | | | | | 19th  Feb | Introduction to pharmacology: treatment, prevention, and control |  |  | | 26th  Feb | Pharmacokinetics and dynamics |  |  | | 4th March | Antimicrobials |  |  | | 11th March | PID |  |  | | 18th March | PID |  |  | | **25th of March to 14th April Easter Holidays** | | | | | 15th  Apr | Epidemiology and EID case studies EIDs and One Health updates  How to do post mortem |  |  | | 22nd  Apr | Post Mortem practical’s in groups |  |  | | 29th  April | Present PM findings and group discussions |  |  | | 6th  May | Revision |  |  | | 13th  May | Undergraduate Exams Start |  |  | | 20th  May | Undergraduate Exam Week |  |  | | **27th to 31st of May reading break** | | | |   **What are my own responsibilities in getting the most value out of this module?**  As HE students we expect you to take responsibility for your own learning. We will direct you (via Ledge) towards additional resources that will enhance your understanding and expand on the topics covered in class. Timetable constraints mean that we cannot physically teach you everything there is to know about a subject therefore we expect you to conduct additional reading and research outside of the taught lessons.  Support will be given by the tutor for assessment work with rough drafts encouraged (but they must be submitted a reasonable time before the final submission date).  As HE students it is expected that you will have learnt the correct referencing system (APA 7th edition). You will be critically marked on your use of information and ensuring that it has been referenced correctly. Please see the tutor if you have any queries regarding the use of information and referencing. |
| **What general resources will help me understand the content of this module?**  The library has an extensive collection of books and journals to support your studies in this module. A selection of key texts are suggested below.  There are a range of journals that you can use to supplement your reading, these include: Journal of Wildlife Management, The Veterinary Record, Journal of Zoo and Wildlife Medicine, Conservation Biology, Biological Conservation, Zoo Biology and the International Zoo Yearbooks. In addition articles in the New Scientist and BBC Wildlife Magazine may also help you.  Aquirre, A.A., Ostfeld, R.S., Tabor, G.M., House, C., Pearl, M.C. (2002). *Conservation Medicine: Ecological Health in Practice.* Oxford University Press: Oxford, UK.  Barongi, R., Fisken, F.A., Parker, M., Gusset, M (Eds.) (2015) *Committing to Conservation: The Wold Zoo and Aquarium Conservation Strategy*. WSAVA Executive Office  Fa,J.E., Funk, S.M., O’Connell, D. (2011). *Zoo Conservation Biology.* Cambridge Press, UK  Hosey, G., Melfi, V., Pankhust, S. (2013) *Zoo Animals: Behaviour, Management and Welfare (2nd Ed.)* Oxford University Press, UK  Kleinman, D.G., Thompson, K.V., Baer, C.K (Eds) (2010) *Wild Mammals in Captivity: Principles and Techniques for Zoo Management 2nd Ed.* Chicago University Press, USA  Mellor, D.J., Hunt, S., Gusset, M. (Eds) (2015) *Caring for Wildlife: The World Zoo and Aquarium Animal Welfare Stragegy.* WAZA Executive Office    Miller, R.E. & Fowler, M.E. (2014). *Fowler’s Zoo & Wildlife Medicine (Volume 8).* Saunders (Elsevier Science Ltd): Missouri, USA.  Rosenthal, K.L., Forbes, N.A., Frye, F. & Lewbart, G. (2008). *Rapid Review of Small Exotic Animal Medicine & Husbandry*. Manson Publishing Ltd: London, UK.  Sodhi, N.S., Ehrlich, P.R. (Eds) (2010) *Conservation Biology for all*. Oxford University Press, UK.  Thursfield, M. (2018) Veterinary Epidemiology (4th Edition). Wiley Blackwell, Oxford, UK.  Willey, J., Sandman, K., Wood, D. (2019) *Prescott’s Microbiology (11th Edition).* McGraw Hill. New York, USA  Quinn, P.J., Markey, B.K., Leonard, F.C., Fitzpatrick, E.S., Fanning, S. (2016) *Concise Review of Veterinary Microbiology, 2nd Edition.* Wiley Blackwell, Oxford, UK  **Internet Resources**  [www.zsl.org](http://www.zsl.org)  [www.oie.int](http://www.oie.int)  <http://www.cdc.gov/ncidod/EID/index.htm>  <http://www.conservationmedicine.org/>  <http://www.wildlifedisease.org/index.html>  [www.defra.gov.uk](http://www.defra.gov.uk) |