STORYBOARD

BLENDED LEARNING COURSE DEVELOPMENT

VET 3221: Veterinary Therapeutics

Weekly units/topics	Intended unit learning outcomes	Activity where students engage with this unit outcome	Where and how is this unit outcome assessed?	Learning Resources
Unit 1: Chemotherapy Week 1:	Day 1 General principals of antimicrobial therapy	 Read class notes & the book A live online chat Join a discussion forum dedicated to the topic Watch a movie on sensitivity test 	Self-assessment quiz	Class notes & Antimicrobial therapy in veterinary medicine (2013): edited by Steeve Giguère, John F. Prescott, Patricia M. Dowling), fifth edition, John Wiley & Sons, Inc
	Day 2- Mechanism of action of antimicrobials & β-lactam antibiotics, peptide antibiotics	 Read class notes & the book Join a discussion forum dedicated to the topics Read about protein synthesis and post a summary (half a page)in the discussion from 	Self-assessment quiz	Class notes & Antimicrobial therapy in veterinary medicine (2013): edited by Steeve Giguère, John F. Prescott, Patricia M. Dowling), fifth edition, John Wiley & Sons, Inc
	Day-3 Lincosamides, pleuromutilins, streptogramins & macrolides	 Read class notes & the book A live online chat Join a discussion forum dedicated to the topics 	Self-assessment quiz	Class notes & Antimicrobial therapy in veterinary medicine (2013): edited by Steeve Giguère, John F. Prescott, Patricia M. Dowling), fifth edition, John Wiley & Sons, Inc
Week 2 Chemotherapy	Day 1- Aminoglycosides,	Read class notes & the bookA live online chat	Self-assessment quiz	Class notes & Antimicrobial therapy in veterinary

	tetracyclines & dosage calculation	 Join a discussion forum dedicated to the topics Two exercises on calculating dosages 		medicine (2013): edited by Steeve Giguère, John F. Prescott, Patricia M. Dowling), fifth edition, John Wiley & Sons, Inc
	Day- 2 chloremphenicol, sulphonamides, diaminopyrimidines, fluoroquinolones	 Read class notes & the book A live chat session Join a discussion forum dedicated to the topics 	Self-assessment quiz	Class notes & Antimicrobial therapy in veterinary medicine (2013): edited by Steeve Giguère, John F. Prescott, Patricia M. Dowling), fifth edition, John Wiley & Sons, Inc
	Day 3 miscellaneous antimicrobials	 Read the book Join a discussion forum dedicated to the topics Group individual report 	 Graded quiz for weeks 1 and 2 topics, Individual report 	Antimicrobial therapy in veterinary medicine (2013): edited by Steeve Giguère, John F. Prescott, Patricia M. Dowling), fifth edition, John Wiley & Sons, Inc
Week 3	Day 1- Alternatives to antimicrobials	 Read the paper and the book & write a 1-2 pages reports A live chat session Join a discussion forum dedicated to the topics 	Self-assessment quiz	Antimicrobial therapy in veterinary medicine (2013): edited by Steeve Giguère, John F. Prescott, Patricia M. Dowling), fifth edition, John Wiley & Sons, Inc & https://doi.org/10.1186/s1 3567-018-0561-7
	Day 2- Antifungals	 Read the book Group assignment Join a discussion forum dedicated to the topics 	Group reportPresentation	Class notes

	Day 3- Antibiotic resistance & its management	 Read the book Group assignment A live chat session Join a discussion forum dedicated to the topics 	Group reportPresentation	(1) https://www.ncbi.n lm.nih.gov/pmc/arti cles/PMC4378521/ (2) Antibiotics vs. bacteria: fighting the resistance:
Week 4	Day 1- Antivirals	 Read class note Join a discussion forum dedicated to the topics 	Self-assessment quiz	https://www.youtu be.com/watch?v=o LPAodRN1b0&featu re=youtu.be Class notes
	Day 2 – Anthelmintic drugs	 Read the notes Join a discussion forum dedicated to the topics A live chat session 	Self-assessment quiz	Class notes
	Day 3 - Resistance to anthelminthics & management	 Group assignment Join a discussion forum dedicated to the topic 	 Group report Presentation Graded quiz for weeks 3 and 4 topics 	https://www.ncbi.nlm.nih.g ov/pmc/articles/PMC36552 36/
Week 5	Day 1 -Acaricides	 Read class notes Group assignment Join a discussion form dedicated to the topic A live chat session 	 Group report Presentation Self-assessment quiz	Class notes

	Day 2 - Resistance to acaricides & its management	 Group assignment Join a discussion forum dedicated to the topic 	 Group report Presentation Self-assessment quiz	http://dx.doi.org/10.1016/j. vetpar.2014.03.006
	Day 3 - Antiprotozoan drugs & dosage calculation	 Read class notes An exercise on calculating dosages will be done Join a discussion forum dedicated to the topics 	Self-assessment quiz	Class notes
Week 6	Day 1- Antiseptics & disinfectants	 Read class notes Group assignment Join a discussion forum dedicated to the topics 	Group reportPresentation	Class notes
	Day 2 - Rational use of drugs	 Read class notes Join a discussion forum dedicated to the topics A live chat session 	Self-assessment quiz	https://www.dovepress.co m/rational-drug-use- evaluation-based-on-world- health-organization-core-d- peer-reviewed-fulltext- article-DHPS
	Day 3 - Antineoplastic drugs	 Click the link and read about cell cycle and cancer Read class notes Join a discussion forum dedicated to the topics 	Graded quiz for weeks 5 and 6 topics	https://onlinelibrary.wiley.c om/doi/full/10.1002/path.3
Week 7	Day 1- Immunomodulators	 Read class notes Join a discussion form dedicated to the topic A live chat session 	Self-assessment quiz	Class notes &

	Day 2- Presentation of group assignments by students	 Each group of students will present to their classmates The lecturer will be present Reports will be submitted at least three days before the presentation 	Reports will be graded	-
	Day 3 – Presentation of group assignments by students	 Each group of students will present to their classmates The lecturer will be present Reports will be submitted at least three days before the presentation I 	Reports will be graded	-
Week 8	Sensitivity test	Attend the lab for a practical sessionWrite individual report	Individual Report will be graded	lab
	Sensitivity test	Attend the lab for a practical sessionWrite individual report	Individual report will be graded	lab
	CAT	-	CAT combining all the weeks	-
Component 2: Anaesthetics Week 9 Part 1: History of Anaesthesia and the various aesthetic	Day 1: The history and practice of veterinary anesthesia and analgesia Day 2: Anesthetic Techniques	Students will attend an online participative session however students will also be given a quiz at the end of the week Students will attend an online participation session however students will also be given a quiz at	An online quiz (E-tivity 1) will be given at the end of the week. Students will be encouraged to contribute in all discussions by awarding points to those who contribute during online	Reading 1- Tranquilli WJ, Thurmon JC, Grimm KA. Lumb and Jones" Veterinary Anaesthesia and Analgesia. 4th edition. Iowa: Blackwell publishing, 2007.
techniques		the end of the week. Student will watch You tube videos of technicians undertaking the various	teaching and learning session. After watching the YouTube	Local Anesthesia (You tube Video) https://www.youtube.com/

		anesthetic techniques and later followed by discussions	video, every student will be requested to answer few questions (E-tivity 1) related to the videos.	watch?v=MoZzcWyuNk8 Regional Anesthesia/ Nerve Block https://www.youtube.com/ watch?v=UtWUzkHnLTk General Anesthesia https://www.youtube.com/ watch?v=5zfG7BCtvvE
Week 9 Part 2: Pre and Peri Anaesthetic care	Day 3: Pre-Operative assessment Day 4: Anesthetic	Students will attend an online participative session however they will be engaged through break out rooms during online course delivery Students will be engaged through	An online quiz (E-tivity 2) will be given at the end of the week. Students will be encouraged to contribute in all discussions by awarding	Reading 2- Guidelines to physical examination in Cats and Dogs. Brief notes by Dr Denis MAJYAMBERE of the University of Rwanda-Department of Veterinary
	equipment	break out rooms during online course delivery	points to those who contribute during online course delivery sessions	Medicine. Reading 3- Kraus B., 2017.
	Day 5: Patient monitoring during anesthesia/ Perianesthetic care	Students will be engaged through break out rooms during online course delivery		Anesthesia and Analgesia for the Veterinary Practitioner of Canine and Feline. ISBN: 978-0-9743262-7-6.
Week 10: Post aesthetic care and Introduction to analgesia and Anaesthesia	Day 1: Post- Operative Care	Students will be engaged through break out rooms and provide feedback	An online quiz (E-tivity 2) will be given at the end of the week. Students will be encouraged to contribute in all discussions by awarding points to those who contribute during online	Reading 3- Kraus B., 2017. Anesthesia and Analgesia for the Veterinary Practitioner of Canine and Feline. ISBN: 978-0-9743262-7-6

			course delivery sessions	
	Day 2: Student Groups' Assignment	Lecturer will meet and explain the exercise of group assignments and the 7 steps of PBL; and later students will meet in groups and work on assignments that will be presented to other students in the next week.	Every student in the group will present on the topic assigned (E-tivity 3) to each other in groups and evaluation will be done using a rubric attached a separate sheet	The 7 steps of PBL (Document attached) Evaluation form 1-Individual in-session presentation.
			In addition, every group will submit minutes of their meetings and an overall power point presentation at the end of the session, which will be evaluated using a rubric attached as a separate sheet	Evaluation form 2- PPT presentation/ minutes submitted
	Day 3: Student Groups' Assignment	Continue self/ group work of assignments	Continue self/ group work of assignments	
Week 11 Part 1: Analgesia, sedation and other pre- medications	Day 1: Analgesia and Pain Management	Group 1 students present to other students under the lecturer's guidance	Every student in the group will present on the topic assigned (E-tivity 3) to each other in groups and evaluation will be done using	Reading 4- Plumb DC. Plumb"s Veterinary Drug Handbook. 5th edition. Iowa: Blackwell publishing, 2005.
			a rubric attached a separate sheet In addition, every group will submit minutes of their meetings and an overall power point presentation at	Reading 3- Kraus B., 2017. Anesthesia and Analgesia for the Veterinary Practitioner of Canine and Feline. ISBN: 978-0-9743262-7-6

			the end of the session, which will be evaluated using a rubric attached as a separate sheet	
Week 11 Part 2: Intravenous/ Inhalant Anaesthetics	Day 2: Pre-medication and sedation	Group 2- 4 students present to other students under the lecturer's guidance	Every student in the group will present on the topic assigned (E-tivity 3) to each other in groups and evaluation will be done using a rubric attached a separate sheet In addition, every group will submit minutes of their meetings and an overall power point presentation at the end of the session, which will be evaluated using a rubric attached as a separate sheet	
	Day 1: Intravenous anesthetics	Group 5 students present to other students under the lecturer's guidance	Every student in the group will present on the topic assigned (E-tivity 3) to each other in groups and evaluation will be done using a rubric attached a separate sheet In addition, every group will submit minutes of their meetings and an overall	Reading 4- Plumb DC. Plumb"s Veterinary Drug Handbook. 5th edition. Iowa: Blackwell publishing, 2005. Reading 5- BSAVA Manual of Canine and Feline Anesthesia and Analgesia 3rd edition 2016. ISBN 978

				4.005340.64.0
			power point presentation at	1 905319 61 9
			the end of the session, which	
			will be evaluated using a	
			rubric attached as a separate	
			sheet	
	Day 2: Inhalant	Group 6- 8 students present to	Every student in the group	
	anesthetics	other students under the lecturer's	will present on the topic	
		guidance	assigned (E-tivity 3) to each	
			other in groups and	
			evaluation will be done using	
			a rubric attached a separate	
			sheet	
			lo addition areas areas will	
			In addition, every group will	
			submit minutes of their	
			meetings and an overall	
			power point presentation at	
			the end of the session, which	
			will be evaluated using a	
			rubric attached as a separate	
			sheet	
Week 12:	Day 1: Neuro-Muscular	Group 9 students present to other	Every student in the group	Reading 4- Plumb DC.
Neuro-Muscular	·		, ,	Plumb"s Veterinary Drug
Blockers and	Blockers/ Local	students under the lecturer's	will present on the topic	Handbook. 5th edition.
Use of	anesthetics	guidance	assigned (E-tivity 3) to each	Iowa: Blackwell publishing,
anaesthetics for			other in groups and	2005.
euthanasia in			evaluation will be done using	2003.
small animals			a rubric attached a separate	
and domestic			sheet	Reading 5- BSAVA Manual
birds			In addition over grove will	of Canine and Feline
Silus			In addition, every group will	Anesthesia and Analgesia
			submit minutes of their	3rd edition 2016. ISBN 978

		meetings and an overall power point presentation at the end of the session, which will be evaluated using a rubric attached as a separate sheet	1 905319 61 9
Day 2: Use of anesthetics for euthanasia in small animals and Domestic birds	Group 10 students present to other students under the lecturer's guidance	Every student in the group will present on the topic assigned (E-tivity 3) to each other in groups and evaluation will be done using a rubric attached a separate sheet In addition, every group will submit minutes of their meetings and an overall power point presentation at the end of the session, which will be evaluated using a rubric attached as a separate sheet	Reading 4- Plumb DC. Plumb"s Veterinary Drug Handbook. 5th edition. Iowa: Blackwell publishing, 2005. Reading 5- BSAVA Manual of Canine and Feline Anesthesia and Analgesia 3rd edition 2016. ISBN 978 1 905319 61 9
Day 3: Course Wrap up and Evaluation	All students and Lecturers will meet to wrap up the course, review if learning outcomes have been addressed and discuss how to continue improving knowledge on subject matter.	N/A	
	At the end of the session, students	N/A	

	will be sent a form of course evaluation by email. It should be resent back in 2 days.	
Week 12:	End of Trimester Exams	