

Semester	3		
Course code	ZOOL 21512		
Course Name	Animal Histology and Physiology		
Credit Value	2		
Core/Optional	Core		
Pre requisites	BIOL 11542		
Co-requisites	ZOOL 21521		
Hourly Breakdown	Theory	Practical	Independent Learning
	30	--	70
Course Aim/Intended Learning Outcomes:			
After completion of the course unit, the student will be able to;			
<ul style="list-style-type: none"> ➤ describe and discuss histology of mammalian organ systems with special reference to humans and relate the histological structure to their functions, and ➤ explain the functioning of mammalian organ systems with special reference to humans. 			
Course Content:			
Animal Histology: Main tissue types; Epithelial, Connective, Muscle and, Nervous tissues; Histology of integumentary system, digestive system, respiratory system, excretory system and reproductive system of mammals with special reference to humans.			
Animal Physiology: Homeostasis, propagation and transmission of signals, sensory mechanisms, muscle contraction, blood circulation, digestion and nutrition, gas exchange, osmoregulation, excretion, reproduction, hormonal coordination and immunity in mammals with special reference to humans.			
Teaching /Learning Methods: A combination of lectures, computer based learning, self-studies, assignments and small group discussions.			
Assessment Strategy: Continuous assessment and end of course examination.			
Continuous Assessment 15%		Final Assessment 85%	
Details: Online and in-class quizzes assignments 15%		Theory (%) 85%	Practical (%) NA
			Other (%) (specify) NA
Recommended reading:			
<ol style="list-style-type: none"> 1. Randall, D., W. Burggren & K. French (2001). Eckert Animal Physiology, 5th Edition, W.H. Freeman & Co. New York. 2. Ross, M. H. & W. Pawlina (2010). Histology: A Text and Atlas, 6th Edition, Lippincott Williams & Wilkins, Maryland. 3. Tortora, G.J. & B. H. Derrickson (2012). Principles of Anatomy and Physiology, 13th edition, John Wiley & Sons, New Jersey. 			