Unit 4

Chapter One: Immunologuy

- What immune system process is phagocytosis found? What cells utilize it?
 - Innate immune system
 - Neutrophils and Macrophages
- What is the difference between innate and adaptive?
 - Innate, is passed from mother during gestation, first line of defense, quick response
 - Adaptive, Develops over time, cells learn how to fight off antigens through exposure, slow response
- What is the immunes system main function?
 - The bodies mechanism of maintaining homeostasis, distinguishing harmful from no harmful organism.
- What is the difference between a Pathogen and a Antigen?
 - Pathogen, any organism with potential to cause and infection
 - Antigen, Has the ability to cause a immune response
- What is produced by the body cells and know as the "security badge"?
 - o MHC 1
- What is known as the true first defence?
 - o Skin
 - Mucous Membranes
 - All epithelial cells
- What activates the inflammatory response and what are the four steps?
 - Mast cells: Histamine-Vasodilation
 - Heat, Pain, Redness, Swelling

•	How do Killer T-Cells remove pathogens?
•	What cells are associated with a allegren response and how do
	they respond?Eosinophil, and Basophil

Chapter 2: Renal System

- What is the function of renal system?
 - Regulates, blood volume and pressure
 - Concentration of blood ions (plasma)
 - Blood pH by control of H+ and HCO3-ion secretion
 - Removal of waste products and reabsorption of filtered nutrients
- What is the main function of the Kidney
 - Is production of urine, contributes to homeostasis by regulation composition of blood plasma
 - Blood filtration
 - Fluid Balance
 - Hormone production: erythropoietin
- What are some key components of the kidney
 - Hilus, blood lymph nerve and uterus enter/leave
 - Cortex: outer layer if parenchyma, houses the nephron
 - Medulla: Inner portion of parenchyma, darker in color
 - Renal pelvis: uterine collection chamber
 - Glomerular Capsule: Blood passes between capillaires, filtration, solute exchange

