

BIO 202: ADVANCED GENERAL BIOLOGY II (3 Units)

Fluid compartments of the body. Functions of the kidney and urine formation, thirst mechanisms. Water, electrolyte and acid – regulation. Buffer mechanisms. Clearance studies. Control of calcium and glucose metabolism.

Embryogenesis of different reproductive organs. Medical genetics. Sex hormones. Reproductive cycles. Physiology of pregnancy, parturition and lactations. Foetal and neonatal circulation / respiration. Excitable tissues (nerve and muscle), reflexes and receptors. Introduction to nervous system (central and peripheral), neuro-transmitter substances. Special senses: Vision, hearing, taste, and smell.