

ANATOMY & PHYSIOLOGY – COURSE OVERVIEW

Updated: 11/19/2010

1ST 9 WEEKS	2ND 9 WEEKS
<ul style="list-style-type: none">I. Introduction to Anatomy and Physiology<ul style="list-style-type: none">A. Course syllabusII. Levels of Structural Organization<ul style="list-style-type: none">A. Cells, Tissues, Organs, Organ SystemsB. HomeostasisC. The Language of AnatomyIII. Basic Chemistry<ul style="list-style-type: none">A. MacromoleculesB. Chemical Reactions in Living ThingsC. Enzyme ActionIV. Animal Cells<ul style="list-style-type: none">A. Eukaryotic Cell Structure and FunctionB. Cell Transport (Diffusion and Osmosis)BENCHMARK 1V. Integumentary System<ul style="list-style-type: none">A. Structure and Function of SkinVI. Skeletal System<ul style="list-style-type: none">A. Function, Classification, and Structure of BonesB. Axial, Appendicular, and JointsVII. Muscular System<ul style="list-style-type: none">A. Types of Muscles (Skeletal, Cardiac, and Smooth)B. Function of MusclesC. Chemistry of Muscle ContractionBENCHMARK 2VIII. Nervous System<ul style="list-style-type: none">A. Central Nervous SystemB. Peripheral Nervous SystemC. Special Senses (Vision, Hearing, Taste, and Smell)BENCHMARK 3IX. Endocrine System<ul style="list-style-type: none">A. Glands (Pituitary, Thyroid, Parathyroid, Adrenal, Pancreas, Pineal, Thymus, Gonads)BENCHMARK 4	<ul style="list-style-type: none">X. Circulatory System<ul style="list-style-type: none">A. Composition and Functions of BloodB. Structure of Heart and Blood VesselsXI. Lymphatic System<ul style="list-style-type: none">A. Body DefensesB. Guest speakerBENCHMARK 5XII. Respiratory System<ul style="list-style-type: none">A. Structure and FunctionB. Respiratory MechanicsXIII. Digestive System<ul style="list-style-type: none">A. Structure and FunctionB. Accessory OrgansC. NutritionBENCHMARK 6XIV. Urinary System<ul style="list-style-type: none">A. Kidney and Nephron Structure and FunctionB. Ureters, Urethra, BladderC. Fluid BalanceD. Field trip to dialysis unitXV. Reproductive System<ul style="list-style-type: none">A. Male StructureB. Female StructureC. Pregnancy and Embryonic DevelopmentBENCHMARK 7XVI. Dissection: Fetal pigLAB PRACTICAL