

AHS 2083 – HUMAN BIOLOGY: ANATOMY
SUMMER 2007
COURSE HOURS: MTWR – 7:30 am-9:00 am; BB 3.01.10

JOHN M. KMETZ, Ph.D.
PHONE: 404-2243 (Can leave message)
OFFICE HOURS: AFTER CLASS
email: kmetzj@earthlink.net

SAVE THESE SHEETS THEY CONTAIN IMPORTANT INFORMATION

PREREQUISITES: Biology 1203 or an equivalent course at another institution.

REQUIRED TEXT: *Human Anatomy and Physiology*, Elaine N. Marieb, Pearson Benjamin Cummings Publishers, 7th Edition, 2007.

COURSE OBJECTIVES

The objectives of this course are 1) to understand the structure of the human body on the cellular, tissue, organ, and organs system levels, and 2) to correlate structure with basic function.

GRADING

Your grade in this course will be based on three exams. All exams will be weighted equally with each exam being worth 33% of your grade. There will be an exam every Thursday starting with the second week of the course. If you have an A on the first three exams, you will be exempted from exam IV. In addition, if you are happy with your grade, whatever it may be, and you have completed three exams, you have the option of not taking exam IV. Exams will consist of the following types of items: fill in the blank, matching, multiple choice, and diagrams. **EXAM IV WILL BE FRIDAY, JULY 6, 7:30 a.m. – 9:00 a.m.**

There will be NO makeup exams in this course!! If you miss an exam your grade on the missed exam will be the average of the three remaining exams. If you miss two exams, one of the two missed exams will be recorded as a zero, and the remaining exam will be the average of three exams with the zero being used as part of the average. If you miss an exam, you forfeit your option of not taking exam IV. In essence, you must take at least three exams to pass the course.

All grading will be on a percentage scale. Percentages with their associated letter grades are as follows: 100 - 90 = A; 89 - 80 = B; 79 - 70 = C; 69 - 60 = D; below 60 = F.

OTHER IMPORTANT POINTS

1. The instructor reserves the right to dismiss any student who habitually distracts from the learning climate.
2. Cheating in any form will not be tolerated and will be dealt with according to university policy.
3. A student absent for any reason is responsible for all information missed and should obtain complete notes and announcement information from another student.
4. Your best grade in this course will be obtained if you do **all the reading assignments**, and **attend all**

classes. Students who do poorly in this course, usually do not read the text, and come to class on a sporadic basis i.e. usually when there is an exam. **DO NOT ASK FOR EXTRA CREDIT WORK AT THE END OF THE COURSE. EXTRA CREDIT IS NOT AN OPTION IN THIS COURSE.**

DATES, LECTURE TOPICS, READING ASSIGNMENTS

Week 1 – June 4 to June 8

Topics: Anatomical terminology, cells; plasma membrane, organelles; extracellular materials

Readings pp. 2-22; 65-97; 110-111

Topics : Tissues: Epithelium, Glands, Epithelial membranes; Tissues: connective tissues proper; Cartilage and Bone

Readings pp. 118-139

Topics: Tissues: Bone, Nerve, Muscle; Skin: Epidermis; Dermis; Burns; Tissue repair

Readings pp. 139-144; 152-167

Topics: Cartilage; Bone: Histology, Growth, Remodeling, and Repair; The skeleton: Skull

Readings pp. 176-192; 203-218

Week 2 – June 11 to June 15

Topics : The skeleton: Vertebral Column, Bony Thorax, Pectoral Girdle, Upper Limb, Pelvic Girdle, Lower Limb

Readings pp. 218-246

Topics: Joints; Muscle tissue: Skeletal muscle; neuromuscular junction; motor units; muscles of respiration

Readings pp. 253-265; Table 8.1; Table 9.3; pp280-296; 325-326; 346-347

Topics: Central Nervous System: Brain, Meninges, CSF, Blood Brain Barrier, Spinal Cord

Readings pp. 388-397; 431-454; 463-467; 470-474

Friday, June 15

EXAM I – UP TO AND INCLUDING THE SKIN THROUGH TISSUE REPAIR

Week 3 – June 18 to June 22

Topics: Peripheral Nervous System; Cranial Nerves; Spinal Nerves; Autonomic Nervous System

Readings pp. 491-516; 533-541

Topics: Endocrine System; Overview; Hypothalamus; Pituitary; Thyroid, Adrenal cortex, Adrenal medulla; Urinary System: Kidneys, Nephrons, Ureters, Bladder, Urethra

Readings pp. 605-606; Fig 16.1; 611-636; 998-1006; 1023-1026

Topics: Reproductive Systems: Male System, Female System; Respiratory System: conducting and respiratory portions

Readings pp. 1066-1072; 1082-1091; 831-846

Friday, June 22

EXAM II – FROM EXAM I UP TO AND INCLUDING MUSCLE

Week 4 – June 25 to June 29

Topics: Digestive System: Structural plan, histology, mouth, pharynx, esophagus, stomach, small intestine, large intestine, liver, pancreas, gall bladder

Readings pp. 883-902; 908-917; 922-925

Topics: Cardiovascular System: Cardiac Muscle, Heart, Valves, Coronary Circulation, Conduction System; Autonomic Innervation

Readings pp. 678-694; Fig 18.14; Fig 18.15

Topics: Continue with Cardiovascular system

Readings Same as for Tuesday, June 28

Friday, June 29

EXAM III – FROM EXAM II UP TO AND INCLUDING URINARY SYSTEM**Week 5 – July 2 to July 6****Topics:** Blood vessels: Construction; Arteries; Veins, Capillaries, Pulmonary and Systemic Circulations**Readings** pp. 714-723; 744-766**Thursday – July 5 – Possible Study Day****Friday, July 6****EXAM IV – 7:30 a.m. – 9:00 a.m. – FROM EXAM III TO END OF COURSE**

THERE IS A LARGE AMOUNT OF MATERIAL TO BE COVERED AND THE TIME IS SHORT.

MAKE THE BEST USE OF YOUR TIME!