1 Zool 255
Fundamentals of
Human Anatomy & Physiology
Dr. Adah Leshem-Ackerman
&
Dr. Carol Vleck

2 GROUND RULES
• Cell phones/beepers - OFF!
• No food or drink
• No newspapers
• Late arrival/early departure procedures
• Nappers stay home
• RESPECT - YES!

3 Text Book
• Tortora: Principles of Anatomy & Physiology 9th or 10th edition

4 Text Book
2nd hand
• Marieb: Human Anatomy & Physiology

5 Must have in class
• Illustrated Notebook
• Color pens/markers

6 Zool 255 lab begins THIS week Tuesday & Wednesday
Web Site
http://www.public.iastate.edu/~zool.255/

ACADEMIC SUCCESS CENTER
• Student Services Bldg.
• Tutoring
• Disability resources
• Learning lab

Supplemental Instruction

TERMINOLOGY
• ANATOMY
  – study of STRUCTURE and the relationship between structures
• PHYSIOLOGY
  – study of FUNCTIONS of the body parts

COMPLIMENTARITY OF STRUCTURE AND FUNCTION

CHARACTERISTICS OF LIFE
• MOVEMENT
• RESPOND TO STIMULI
• METABOLISM
• REPRODUCTION
• GROWTH

STRUCTURAL COMPLEXITY
• Chemical level
• Cellular
• Tissue
• Organ
• System (x11)
• Organism

14  □  DIRECTIONAL TERMS
   – Superior
   – Inferior
   – Anterior/Ventral
   – Posterior/Dorsal
   – Medial
   – Lateral
   – Proximal
   – Distal

15  □  Planes of the Body
   • Transverse plane
   • Frontal plane
   • Median (mid-sagittal) plane

16  □  Medical Imaging
   • X-rays - radiographs
   • CT - Computerized Tomography
   • MRI - Magnetic Resonance Imaging
   • Ultrasound