

Anatomy & Physiology 1st Semester Exam Study Guide (chapters 1-6)

For all chapters you should know the vocabulary. The exam will cover Chapters 1-6. There are up to 100 multiple choice questions on the exam.

For each system, know the function and parts.

Chapter 1

- Definitions of anatomy & physiology; how they are different.
- Levels of organization from atom to organism.
- What is homeostasis?
- Directional terms
- Regional Terms (anatomical terms)

Chapter 2

- What are the types of macromolecules / organic substances found in the human body? What elements are each composed of? Where are they each found?
- What is an enzyme?

Chapter 3

- What is a cell?
- Know the functions of the organelles of the cell (nucleus, ribosomes, mitochondria, endoplasmic reticulum, Golgi apparatus, cell membrane).
- What does it mean that the membrane is selectively permeable?
- Describe each type of cell transport. Which ones require energy?
- What are the 4 major tissue types? How do they differ structurally and functionally?
- Types of tissues (know the 15 from the Tissue Lab) where they are found and what they do.

Chapter 4

- Be able to label on a diagram: hair shaft, hair follicle, epidermis, stratum corneum, sweat gland, sebaceous gland, dermis, arrector pili muscle.
- What is the function of hair? What is the function of nails?
- What pigment is in skin? What produces this pigment?
- How are burns classified?
- What do the ABCD's of skin cancer stand for?

Chapter 5

- What are the functions of the skeletal system?
- What are the parts of a long bone?
- What is the difference between osteocytes, osteoclasts, and an osteoblast?
- What are the parts of the axial skeleton? Appendicular skeleton?
- Be able to label on a diagram:
 - Anterior skeleton - maxilla, frontal bone, mandible, xiphoid process, sternum, radius, ulna, humerus, carpals, metacarpals, fibula, tibia, patella, femur, tarsals, metatarsals
 - Posterior skeleton - occipital bone, parietal bone, thoracic vertebrae, lumbar vertebrae, cervical vertebrae, sacrum, scapula, clavicle, ilium, ischium, coxal bone, pubis, coccyx, calcaneus
- What are the types of joints and examples of each?

Chapter 6

- Location of the major muscles on a diagram
- Parts of the microscopic muscle structure
- Movements
- Steps of the Sliding Filament Theory
- How do muscle cells obtain the necessary energy for movement?
- How does a signal pass across the neuromuscular junction?
- Know the functions of: agonist, antagonist, prime mover, synergist

1st Semester Anatomy Physiology Study Guide

**Iowa. University, State University of
Iowa**



1st Semester Anatomy Physiology Study Guide:

Study Guide to Human Anatomy and Physiology 1 Michael Harrell M. S., Michael Harrell, 2012-08-01 Welcome everyone to your guide to Human Anatomy Physiology This book covers the following topics body organization and terminology chemistry of the body cell anatomy and physiology tissues integumentary system skeletal system muscular system nervous system brain spinal cord sympathetic and parasympathetic nervous system and senses I have been teaching college level human anatomy and physiology for many years as well as other courses My other classes taught have included pathophysiology biology zoology microbiology and others I have learned through the years the best ways to learn the most information in the least amount of time This guide will give you the important information from the chapters which will be what you are most likely to see on an exam Sample questions will be included which are also the most likely for you to see on an exam Note also that this book is not a guide for A P lab This book will cover the topics needed for the first half of a two semester college level Human Anatomy Physiology course Resources in Education ,1984 National Guide to Educational Credit for Training Programs 2004-2005 Jo Ann Robinson, Troy Polite, Nancy Musick, 2004 For more than 25 years this guide has been the trusted source of information on thousands of educational courses offered by business labor unions schools training suppliers professional and voluntary associations and government agencies These courses provide academic credit to students for learning acquired at such organizations as AT T Citigroup Delta Air Lines General Motors University NETg and Walt Disney World Resort Each entry in the comprehensive INational Guide R provides L L DBL Course title L DBL Location of all sites where the course is offered L DBL Length in hours days or weeks L DBL Period during which the credit recommendation applies L DBL Purpose for which the credit was designed L DBL Learning outcomes L DBL Teaching methods materials and major subject areas covered L DBL College credit recommendations offered in four categories by level of degrees and expressed in semester hours and subject areas s in which credit is applicable L L The introductory section includes ACE Transcript Service information For more than 25 years this guide has been the trusted source of information on thousands of educational courses offered by business labor unions schools training suppliers professional and voluntary associations and government agencies These courses provide academic credit to students for learning acquired at such organizations as AT T Citigroup Delta Air Lines General Motors University NETg and Walt Disney World Resort Each entry in the comprehensive INational Guide R provides L L DBL Course title L DBL Location of all sites where the course is offered L DBL Length in hours days or weeks L DBL Period during which the credit recommendation applies L DBL Purpose for which the credit was designed L DBL Learning outcomes L DBL Teaching methods materials and major subject areas covered L DBL College credit recommendations offered in four categories by level of degrees and expressed in semester hours and subject areas s in which credit is applicable L L The introductory section includes ACE Transcript Service information **Documents, Including Messages and Other Communications** Ohio, 1878 *British*

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