BASIC HUMAN ANATOMY 3RD EDITION ONLINE

THE DEAN VAUGHN TOTAL RETENTION SYSTEM™

COURSE OUTLINE

The Dean Vaughn Total Retention System® applied to Basic Human Anatomy 3rd Edition is designed to be the fastest and most effective method to teach anatomical terminology, direction, location, and the primary function of each body system – as well as the names and locations of all the major parts in each body system. It works in conjunction with the natural learning process of the brain by converting abstract medical word elements into images of real and familiar objects that make it incredibly easy to learn and remember program content.

MATERIALS

Basic Human Anatomy 3rd Edition consists of the following components:

- Master Administrator Single-use license with access to course content and Boost
 Dashboard (i.e., learning platform oversight and management, create and assign
 "educator" roles)
- Student Course Single-use license with access to course content

ASSIGNMENTS

As active learners in Basic Human Anatomy 3rd Edition, students will be expected to:

- Complete the Pre-test to establish a basis for measuring individual accomplishment
- View and carefully participate (i.e., pronouncing the anatomical term or part and audionym along with the narrator – visualizing the audionym, association, and location) in the video presentation for each lesson
- Complete all lesson-based learning activities and reading assignments
- Perform a final review of basic human anatomy anatomical terminology, direction, location, and the primary function of each body system, as well as the names and locations of all the major parts in each system
- Complete the Final Test to assess knowledge and understanding of basic human anatomy

OBJECTIVES

On completion of *Basic Human Anatomy 3rd Edition* students will be able to:

- Understand the terminology and fundamental concepts of basic human anatomy
- Identify the structures of the human body including anatomical positions, body planes, abdominopelvic quadrants, regional subdivisions, and body cavities through concepts of organ and system structure
- Identify the names and locations of all the major parts in each principal body system, including all 206 bones of the skeletal system and the structures of the eye and the ear
- Understand the primary functions of each principal body system
- Complete a final test and achieve a percentage score of 70 percent or better

MODULE 1 – INTRODUCTION

- The Dean Vaughn Total Retention System®
- Importance of the Learning Activities
- Important Definitions

MODULE 2 – INTRODUCTION TO ANATOMY & PHYSIOLOGY

• Chemical Composition Molecules

	molecules	Nucleic acids	carbohydrates	proteins	lipids
•	Cell Structure				
	cellular membrane	nucleus	nucleolus	cytoplasm	organelles
•	Tissue				
	connective	epithelial	muscle	nerve	
•	Anatomical Location				
	cranial epi-	cephal	caudal	superior	inferior
	hypo- dorsal axillary	proximal posterior brachial	distal lateral inguinal	ventral renal cubital	anterior chondr- popliteal

• Review Activities

pulmonary

MODULE 3 – ANATOMICAL TERMS, POSITION & DIRECTION

viscera

• Anatomical Terms, Position & Direction

anatomical position body planes midsaggital plane sagittal plane horizontal plane frontal plane lumbar umbilical iliac quadrants abdominopelvic area epigastric region hypochondriac region thoracic abdominal pelvic abdominopelvic cavity ventral cavity dorsal cavity

· Review Activities

MODULE 4 – THE SKELETAL SYSTEM

- Basic Function & Structure of the Skeletal System
- Bones of the Cranium & Face (The Skull)

frontal bones parietal bones occipital bone temporal bones sphenoid bone ethmoid bone

zygomatic (malar) bone lacrimal bone nasal bone vomer bone concha bone palatine bone maxilla bone mandible bone

• Bones of the Ear, Neck & Trunk

malleus (hammer) incus (anvil) stapes (stirrup)

hyoid bone cervical vertebrae thoracic vertebrae

lumbar vertebrae sacrum coccyx

sternum ribs

• Bones of the Upper & Lower Extremities

clavicle scapula humerus ulna radius carpals

metacarpals phalanges

hip femur patella tibia fibula tarsals

metatarsals

- Diseases & Disorders of the Skeletal System
- Review Activities

MODULE 5 - THE MUSCULAR SYSTEM

- Basic Function & Structure of the Muscular System
 - Muscle fibers
 - Types of muscles
 - Movements performed by muscles
- How Muscles are Named

direction mymyonumber location size action shape origin; insertion rectus transverse oblique brevis major longus minor maximus minimus quadriceps biceps triceps

Muscles Named by Action

flexor extensor abductor adductor levator depressor supinator plantar flexor invertor tensor rotator

- Diseases & Disorders of the Muscular System
- · Review Activities

MODULE 6 - THE INTEGUMENTARY SYSTEM

- Basic Function & Structure of the Integumentary System
 - Skin layers
 - Skin color
- Major Structures of the Integumentary System

dermat- cutis- skin

epidermis dermis hypodermis

hair shaft root

hair follicle

sebaceous glands sweat glands

nail body free edge nail root

nail bed

- Diseases & Disorders of the Integumentary System
- Review Activities

MODULE 7 – THE CARDIOVASCULAR SYSTEM

- Basic Function & Structure of the Cardiovascular System
 - o Diastole, systole & electrical impulses
 - o Blood
- Major Structures of the Cardiovascular System

atrium ventricle chambers blood vessels artery arteriole capillary venule vein pulmon aorta vena cava

How Arteries and Veins are Names

coronary carotid jugular saphenous

- Diseases & Disorders of the Cardiovascular System
- Review Activities

MODULE 8 – THE LYMPHATIC SYSTEM

- Basic Function & Structure of the Lymphatic System
- Major Parts of the Lymphatic System

vesselsnodestonsilsthymusspleencervicaxillaryinguinalspleenthymustonsils

- Diseases & Disorders of the Lymphatic System
- Review Activities

MODULE 9 – THE RESPIRATORY SYSTEM

- Basic Function & Structure of the Respiratory System
- The Process of Breathing
 - o External respiration
 - o Internal respiration
 - o Cellular respiration
- Major Parts of the Respiratory System

lungs nose mouth pharynx larynx trachea

bronchi bronchioles

- Diseases & Disorders of the Respiratory System
- · Review Activities

MODULE 10 - THE NERVOUS SYSTEM

- Basic Function & Structure of the Nervous System
 - o Central nervous system
 - o Peripheral nervous system
 - Neurons
 - o Sympathetic & parasympathetic nervous system
- Major Parts of the Nervous System
 - o Central Nervous System

cerebellumcerebrumthalamushypothalamusmidbrainponsmedullabrain stemspinal cordwhite mattergray mattercentral canal

o Peripheral Nervous System

nerve plexuses afferent nerves efferent nerves sympathetic nerves parasympathetic nerves sciatic nerve

- somatic nervous system
- Diseases & Disorders of the Nervous System
- Review Activities

MODULE 11 - THE SENSORY ORGANS (SPECIAL SENSES)

- Basic Function & Structure of the Eye
 - Outer layer
 - o Middle layer
 - o Inner layer
 - o Lens, aqueous & vitreous humor, and conjunctiva
- Major Parts of the Eyeball

optic nerve sclera choroid retina posterior cavity lens

suspensory ligament ciliary body conjunctiva pupil iris anterior cavity cornea aqueous humor vitreous humor

- Basic Function & Structure of the Ear
 - o External (Outer) Ear
 - o Middle Ear
 - o Inner Ear
- Major Parts of the Ear

external (outer) ear middle ear (tympanic cavity) internal (inner) ear pinna auditory canal tympanic membrane vestibule cochlea semi-circular canals

- Diseases & Disorders of the Sensory Organs
- Review Activities

MODULE 12 - THE ENDOCRINE SYSTEM

- Basic Function & Structure of the Endocrine System
 - Pituitary gland
 - Thyroid gland
 - Adrenal gland
 - o Insulin & glucagon
- Glands of the Endocrine System

hypothalamus pituitary pineal thyroid parathyroids adrenals ovaries testes pancreas

- Diseases & Disorders of the Endocrine System
- Review Activities

MODULE 13 - THE DIGESTIVE SYSTEM

- Basic Function & Structure of the Digestive System
- Major Parts of the Digestive System

alimentary canal accessory organs esophagus small intestine large intestine duodenum jejunum cecum colon sigmoid rectum anus pancreas liver cholecyst

- Diseases & Disorders of the Digestive System
- Review Activities

MODULE 14 – THE URINARY SYSTEM

- Basic Function & Structure of the Urinary System
- Major Parts of the Urinary System

kidneys ureters urinary bladder urethra

- Diseases & Disorders of the Urinary System
- Review Activities

MODULE 15 – THE REPRODUCTIVE SYSTEM

- Basic Function & Structure of the Reproductive System
 - o Male Reproductive System
 - Testes
 - Epididymis
 - Seminal vesicles & prostate gland
 - Penis
 - o Female Reproductive System
 - Ovaries
 - Uterine Tubes
 - Uterus
 - Vagina
 - Vulva
 - Mammary Glands

- Major Parts of the Reproductive System
 - Male Reproductive System

testis scrotum penis

glans penis seminal vesicle bulbourethral gland prostate gland epididymis ductus deferens ejaculatory duct prostatic urethra membranous urethra

spongy urethra urethral orifice

o Female Reproductive System

ovaries uterine tube uterus cervix vagina clitoris

labium minor labium major mammary glands

- Diseases & Disorders of the Reproductive System
- Review Activities

MODULE 16 – CONCLUSION

- Conclusion to the Dean Vaughn Total Retention System® Basic Human Anatomy 3rd Edition Course
- Final Test