

COURSE INFORMATION

COURSE PREFIX/NO:	AHS 113
COURSE TITLE:	Head & Neck Anatomy
LEC HRS/WEEK:	1.0
LAB HRS/WEEK:	3.0
CREDIT HRS/SEMESTER:	1.0

DL ATTENDANCE/VA STATEMENT TEXTBOOK INFORMATION

COURSE DESCRIPTION:

This course provides a detailed study of the structure of the head and neck with specific emphasis on structure as it pertains to the student of dental science. This course includes 3 hours of lab per week.

Co-Requisite: DHG 165, DHG 121, DHG 243 Pre-Requisite: DHG 154, DHG 125

COURSE COMPETENCIES:

Module I - Bones

1. Identify by name, describe, and locate the bones of the skull and face and locate anatomical landmarks on the bones.
2. Identify the names and location of the sinuses.

Module II- Vascular Systems

1. Identify by name, describe, and locate the arteries and veins that constitute the flow of blood to from the heart to the head and neck and back to the heart.
2. Identify the major groups of lymph nodes of the head and neck and describe the functions of the lymphatic system.

Module III – Nervous System

1. Identify, describe, and locate the components of the brain and name the 12 cranial nerves.
2. Identify by name the branches of the trigeminal and facial nerves and areas of their innervation.

Module IV – Muscles and Joint

1. Identify by names, locate, and describe the functions of the muscles of mastication, facial expression, the tongue, and of head movement.
2. Identify and describe the part of the TMJ and its actions.

Module V –Dental Landmarks and Pathology

1. Identify anatomical landmarks of the head and neck that pertain to dentistry.
2. Describe pathological conditions that affect the normal head and neck anatomy.

TEXT: Illustrated Anatomy of the Head and Neck ^{2nd} Edition, Fehrenbach/Herring

COURSE REQUIREMENT:

To successfully complete AHS 113, the dental hygiene student must fulfill the following requirements:

1. Attend all scheduled lectures or labs
2. Complete all reading assignments
3. Complete and achieve a grade of 80% or better on all tests and quizzes
4. Contact the instructor prior to class in cases of unavoidable absences
5. Adhere to the dental hygiene program dress code

METHOD OF INSTRUCTION:

Each student will be provided with lesson objectives, which correspond, with each lecture given by the instructor. Course information will be delivered by lectures, overhead projections, videos, PowerPoint presentations, class discussion, and handouts.

EVALUATION STRATEGIES TESTING:

Students will be evaluated on weekly quizzes, Mid Term Exam and Final Exam. The written quizzes and test will be in national Board Format, which may include identification of anatomical structures, testlet, case study, and/or multiple choice.

- A. Tests will be given during class time. Students will be given ample notification before testing occurs.
- B. Students will be allowed to review tests; however, they are NOT allowed to keep the tests (MIDTERM OR FINAL).
- C. Make-up Policy For Quizzes and Tests
 - 1. Quizzes may not be made up. Because of this the one lowest Quiz Score will be dropped
 - 2. .All Tests (MIDTERM OR FINAL) missed due to an absence will be made up before the next didactic class. If a student is absent on the day of a written test (MIDTERM OR FINAL) and does not notify the instructor beforehand the student will automatically receive a seven (7) point deduction on the test. All make-up tests will be given in the Assessment Center.

ATTENDANCE Absenteeism:

Students who are to be absent for a lecture/lab session must contact the instructor prior to the class.

An absence in excess of two (2) will be grounds for dismissal from the DHG Program.

GRADING

The final grading scale for AHS 113 is as follows:

100-94	A
93-88	B
87-80	C
79-below	F

The grade for AHS 113 will be determined as follows:

1/3 = Weekly Tests

1/3 = Mid Term Exam

1/3 = Final Exam

You cannot pass this course if you fail the Midterm and Final Exam.

COURSE OUTLINE

AHS 113 HEAD & NECK ANATOMY

- I. Osteology of the Skull
 - A. Bones
 - 1. frontal
 - 2. sphenoid
 - 3. ethmoid
 - 4. occipital
 - 5. temporal
 - 6. parietal
 - 7. mandible
 - 8. vomer
 - 9. nasal
 - 10. lacrimal
 - 11. zygomatic
 - 12. inferior nasal concha
 - 13. palatine bone
 - 14. maxillae
 - B. Landmarks
 - 1. foramina
 - 2. sutures
 - 3. fossae
 - 4. processes
 - 5. fissure
 - 6. condyles
- II. Sinuses
 - A. Structures
 - 1. nose
 - 2. nasal cavity
 - 3. epithelial lining
 - B. Sinuses
 - 1. function
 - 2. clinical importance
 - C. Location
 - 1. frontal
 - 2. sphenoid
 - 3. ethmoid
 - 4. maxillary
- III. Arterial and Venous Supply to the Head & Neck
 - A. Arterial Supply
 - 1. pulmonary artery
 - 2. common carotid
 - 3. external carotid
 - 4. internal carotid
 - 5. facial artery
 - 6. lingual artery
 - 7. maxillary artery

- B. Venous Drainage
 - 1. internal jugular
 - 2. external jugular
 - 3. pterygoid plexus
 - 4. retromandibular vein

- IV. Nervous System
 - A. Central Nervous System
 - 1. brain
 - 2. spinal column
 - 3. cranial nerves

 - B. Trigeminal Nerve
 - 1. ophthalmic division
 - 2. maxillary division
 - 3. mandibular division

- V. Muscles of the Head & Neck
 - A. Muscles of the scalp

 - B. Muscles of Mastication
 - 1. masseter
 - 2. temporal
 - 3. medial pterygoid
 - 4. lateral pterygoid

 - C. Muscles of Facial Expression
 - 1. orbicularis oris
 - 2. mentalis
 - 3. buccinator
 - 4. platysma
 - 5. risorius
 - 6. orbicularis oculi
 - 7. levator labii superior
 - 8. zygomaticus major

 - D. Hyoid Muscles
 - 1. digastric
 - 2. mylohyoid
 - 3. geniohyoid
 - 4. stylohyoid
 - 5. omohyoid
 - 6. sternomastoid

 - E. Head Movement
 - 1. sternocleidomastoid muscle
 - 2. trapezius

- VI Lymph Nodes
 - A. Distribution Pattern
 - 1. submental nodes
 - 2. submandibular nodes
 - 3. upper deep cervical nodes
 - 4. retropharyngeal nodes
 - B. Salivary Glands
 - 1. parotid
 - 2. submandibular
 - 3. sublingual
 - 4. minor glands
- VII. TMJ
 - A. Structure
 - 1. articular disc
 - 2. synovial cavities
 - 3. ligament
 - 4. capsule
 - 5. retrodiscal pad
 - B. Movements
 - C. Complications
 - 1. pain
 - 2. sounds
 - 3. disc derangement
 - 4. subluxation
 - 5. bruxism
 - 6. arthritis
- VII. Anatomical Landmarks
 - A. Oral Cavity
 - 1. border
 - 2. vestibule
 - 3. palate
 - 4. tongue
 - 5. floor of the mouth
 - 6. mucous membranes
 - B. Face
 - 1. vermilion
 - 2. philtrum
 - 3. ala of nose
 - 4. grooves
 - 5. mentum
- IX. Pathological Conditions