

**Virginia Western Community College**  
**DNH 115**  
**HEAD AND NECK ANATOMY**

**Prerequisites**

Admission into the dental hygiene program.

**Course Description**

Presents a study of the macroscopic anatomy of the head, neck and oral tissues. Includes the anatomical nomenclature and clinical applications of the various regions as applied to the practice of Dental Hygiene.

**Semester Credits: 1.5 an additional 1.5 is given for Histology Section Lecture Hours: 1.15**

**Required Materials****Textbook:**

Illustrated Anatomy of the Head and Neck. Margaret J. Fehrenback, Susan W. Herring, Fifth Edition

**Course Outcomes**

**At the completion of this course, the student should be able to:**

1. Develop a working knowledge of anatomical terminology for both identification and functional purposes.
2. Develop insight into the structures of the head and neck relating to surface anatomy and to the underlying supporting tissues.
3. Develop a detailed knowledge of the individual macroscopic characteristics and functions of intra and extra-oral structures of the head and neck.
4. Begin to apply knowledge of oral-facial anatomy to pre-clinic level patient services.
5. Apply and integrate knowledge acquired in this course with other dental hygiene science and clinical courses taught in the curriculum.

**Topical Description**

UNIT 1: SURFACE ANATOMY, SKELETAL SYSTEM, CERVICAL VERTEBRAE

- A: Anatomical Nomenclature
- B: Surface Anatomy
- C: Regions of the Head
- D: Regions of the Neck
- E: Overview of the Skeletal System

- F: Bones of the Head and Neck
- G: Abnormalities of Bone

## UNIT 2: TEMPOROMANDIBULAR JOINT, MANDIBLE, MUSCULAR SYSTEM Overview of the Muscular System

- A. Muscles of the Head and Neck
- B. Overview of the Temporomandibular Joint
- C. Jaw Movements with Muscle Relationships
- D. Disorders of the Jaw

## UNIT 3: VASCULAR SYSTEM, GLANDULAR TISSUE

- A. Overview of the Vascular System
- B. Arterial Blood Supply to the Head and Neck
- C. Vascular Lesions
- D. Overview of the Glandular Tissue
- E. Lacrimal Glands
- F. Thyroid Gland
- G. Parathyroid Glands
- H. Thymous Glands

## UNIT 4: NERVOUS SYSTEM – WEEKS 9-14

- A. Overview of the Nervous System
- B. Nerves to the Oral Cavity and Associated Structures
- C. Nerve Lesions of the Head and Neck

## UNIT 5: LOCAL ANESTHESIA, LYMPH SYSTEM, FASCIA AND SPACES, SPREAD OF DENTAL INFECTION

- A. Overview of Anatomical Considerations for Local Anesthesia
- B. Maxillary Nerve Anesthesia
- C. Mandibular Nerve Anesthesia
- D. Overview of the Lymphatic System
- E. Lymph Nodes of the Head and Neck
- F. Lymphadenopathy
- G. Overview of the Fascia
- H. Fascial Spaces
- I. Infectious Process
- J. Dental Infections
- K. Infection Resistance Factors
- L. Spread of Dental Infections
- M. Prevention of the Spread of Dental Infections

### **Notes to Instructors**