

**NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY
DNH 115 - HISTOLOGY/HEAD AND NECK ANATOMY (3 CR.)**

Course Description

This course presents a study of the microscopic and macroscopic anatomy and physiology of the head, neck, and oral tissues. This includes embryologic development and histologic components of the head, neck, teeth, and periodontium. Lecture 3 hours per week.

General Course Purpose

The general course purpose is to provide first year dental hygiene students in the first semester with an understanding of the basic structure, development, and functions of the oral tissues along with an overall view of body tissues in addition to a study of the anatomy and physiology of the structures of the head and neck.

Course Prerequisites/Co-Requisites

None

Course Objectives

Upon completing the course, the student will be able to:

- Identify basic cell structure and tissue organization.
- Describe the structure, location, and function of the basic tissue types of the oral cavity.
- Describe the structure and development of the hard and pulpal tissues of the oral cavity.
- Describe the structure and development of the periodontium.
- Describe tooth eruption and succession.
- Describe the histological components of the oral mucous membranes and gingival tissues.
- Discuss the embryology of the major structures of the tongue, pharynx, and salivary glands.
- Identify and describe the osseous structures of the head and neck region.
- Identify and describe the paranasal sinuses of the head and neck region.
- Identify and describe the muscles responsible of the head and neck region.
- Identify the major nerve supply of the head and neck region and discuss their function.
- Identify and describe the major arteries, veins and lymph nodes of the head and neck region.
- Describe the anatomical structures of the temporomandibular joint with emphasis on its role in position and movements of the mandible.
- Describe the relationship between structures of the head and neck region to oral health, disease, and clinical dental procedures.

Major Topics to be Included

- Basic Cell Structure and Tissue Organization
- Basic Tissue Types of the Oral Cavity
- Structure and Development of the Hard and Pulpal Tissues
- Structure and Development of the Periodontium
- Tooth Eruption and Succession
- Histological Components of the Oral Mucous Membranes and Gingival Tissues
- Embryology of the Tongue, Pharynx, and Salivary Glands
- Osseous Structures of the Head and Neck Region
- Paranasal Sinuses of the Head and Neck Region
- Muscles of the Head and Neck Region
- Nerve Supply of the Head and Neck Region
- Arteries, Veins and Lymph Nodes of the Head and Neck Region
- Anatomical Structures of the Temporomandibular Joint
- Structures of the Head and Neck Region in Health and Disease