Course Information Form (CIF)

Course Code: DHG 110

Course Title: Applied Head and Neck Anatomy

Department: Allied Health
PCS Code: 1.2 - Occupational/Technical Instruction
CIP Code: 51.0601
Repeatability: 0

Effective Date: Summer 2026

Credit Hours

Catalog Notation: 2-0-2
Credit Hour Distribution:

Lecture: 2	Lab: 0	Clinical: 0	**Total: 2**

General Course Information

Catalog Description

Gross anatomy of head and neck with special emphasis on maxilla, mandible, and oral soft tissues. Interactions of neuromuscular mechanisms of teeth, supporting structures and temporomandibular joint.

General Course Objectives

Correlate knowledge of anatomy of the oral structures to the practice of dental hygiene and understand the interaction of the anatomy of the oral structures with the functioning of the body as a whole.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 099	Placement out of CCS 098	Placement out of MAT 072

Prerequisites

Credit in BIO 121
Admission into the Dental Hygiene program

Methods of Evaluation

12-15 post-lecture quizzes, 8-11 quizzes, 2-5 exams, 1 ethical reflective dialogue post, 1 evidence-based assignment, 1 course review, and 1 final exam.

Instructional Materials and Additional Supplies

Illustrated Anatomy of the Head and Neck, Fehrenbach, M.J. Current Edition.

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Introduction of Head and Neck Anatomy and Surface Anatomy	1. Define and pronounce the key terms and anatomic terms in Chapter 1-2. 2. Discuss the clinical applications of head and neck anatomy by dental professionals. 3. Discuss anatomic variation and how it applies to head and neck structures. 4. Discuss how the surface anatomy of the face and neck may impact dental clinical procedures. 5. Locate and identify the regions and associated surface landmarks of the head and neck.	2	0	0
Skeletal System: Paranasal Sinuses; Fossae; Cranial, Facial, and Cervical Bones	1. Define and pronounce the key terms and anatomic terms in chapter 3. 2. Locate and identify the bones of the head and neck and their landmarks on a diagram and skull. 3. Describe in detail the landmarks of the maxilla and mandible. 4. Discuss the skeletal system pathology associated with the head and neck. 5. Locate and identify the paranasal sinuses and fossae of the head and their landmarks on a diagram and skull.	5	0	0
Muscular System: Cervical Muscles, Muscles of Facial Expression, Muscles of Mastication, Hyoid Muscles, Muscles of the Tongue and Pharynx	1. Define and pronounce the key terms and anatomic terms in chapter 4. 2. Locate and identify the muscles of the head and neck on a diagram and skull. 3. Describe the origin, insertion, action, and innervation of each muscle of the head and neck. 4. Discuss the pathology associated with the muscles of the head and neck.	4	0	0
Temporomandibular Joint	1. Define and pronounce the key terms and anatomic terms in chapter 5. 2. Locate and identify the landmarks of the temporomandibular joint on a diagram and skull. 3. Describe the movements of the temporomandibular joint and their relationship with the muscles in the head and neck region. 4. Discuss temporomandibular joint pathology and related patient care.	2	0	0
Vascular System: Arterial Blood Supply, Venous Drainage of Head and Neck	1. Define and pronounce the key terms and anatomic terms in chapter 6. 2. Identify and trace the routes of the blood vessels of the head and neck on a diagram and skull. 3. Discuss the vascular system pathology associated with the head and neck region.	5	0	0
Lymphatic System	1. Define and pronounce the key terms and anatomic terms in chapter 10. 2. List and discuss the lymphatic system and its components. 3. Locate and identify the lymph nodes of the head and neck on a diagram. 4. Locate and identify the tonsils of the head and neck on a diagram. 5. Identify the lymphatic drainage patterns for the head and neck. 6. Describe and discuss pathology of lymphoid tissue associated with the head and neck.	2	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Fascia and Spaces, Spread of Infection	1. Define and pronounce the key terms and anatomic terms in chapter 11-12. 2. Locate and identify the fasciae of the head and neck on a diagram. 3. Locate and identify the major spaces of the head and neck on a diagram. 4. Discuss the communication between the major spaces of the head and neck. 5. Discuss the spread of odontogenic infection to the sinuses and by the vascular system, lymphatic system, and spaces in the head and neck region. 6. Trace the routes of odontogenic infection in the head and neck region. 7. Discuss the complications that can occur with the spread of odontogenic infection in the head and neck region. 8. Discuss the prevention of the spread of odontogenic infection during patient dental care.	2	0	0
Nervous System: Cranial Nerves 1-12	1. Define and pronounce the key terms and anatomic terms in chapter 8. 2. Describe the components of the nervous system and outline the actions of nerves. 3. Discuss the divisions of the central and peripheral nervous systems. 4. Identify and trace the routes of the cranial nerves on a diagram and skull. 5. Discuss the structure innervated by each of the cranial nerves. 6. Identify and trace the routes of the nerves to the oral cavity and associated structure of the head and neck on a diagram and skull. 7. Describe the structures innervated by each of the nerves of the head and neck. 8. Discuss the nervous system pathology associated with the head and neck region.	4	0	0
Anatomy of Local Anesthesia	1. Define and pronounce the key terms and anatomic terms in chapter 9. 2. List the tissues and structures anesthetized by each type of local anesthetic injection and describe the different target areas. 3. Locate and identify the anatomic structures used to determine injection site for the needle for each type of local anesthetic injection on a skull. 4. Identify the tissue involved during the insertion of the needle for each type of local anesthetic injection. 5. Discuss the indications of clinically effective anesthesia and possible complications associated with anatomic considerations for each type of injection.	2	0	0
Glandular Tissue	1. Define and pronounce the key terms and anatomic terms in chapter 7. 2. Locate and identify the glands and associated structures in the head and neck on a diagram. 3. Discuss the glandular pathology associated with the head and neck.	2	0	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
30	0	0