

**DH 74 Course Outline as of Fall 2011****CATALOG INFORMATION**

Dept and Nbr: DH 74

Title: HEAD,NECK,ANT,HISTO,EMBR

Full Title: Head and Neck Anatomy, Histology and Embryology

Last Reviewed: 10/10/2022

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	3.00	Lab Scheduled	3.00	17.5	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	5.00		Contact Total	87.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

**Catalog Description:**

This course emphasizes the structure of the head and neck. Specific focus will be placed on knowledge necessary for clinical application. Histology and embryology contains the foundation of knowledge necessary to understand pathology and developmental disturbances encountered in dentistry.

**Prerequisites/Corequisites:**

Course Completion of DH 70

**Recommended Preparation:****Limits on Enrollment:**

Acceptance to Allied Dental Program

**Schedule of Classes Information:**

Description: This course emphasizes the structure of the head and neck. Specific focus will be placed on knowledge necessary for clinical application. Histology and embryology contains the foundation of knowledge necessary to understand pathology and developmental disturbances encountered in dentistry. (Grade Only)

Prerequisites/Corequisites: Course Completion of DH 70

Recommended:

Limits on Enrollment: Acceptance to Allied Dental Program

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:

<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
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<b>CSU Transfer:</b>	Transferable	Effective:	Spring 2000	Inactive:
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<b>UC Transfer:</b>		Effective:		Inactive:
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**CID:**

**Certificate/Major Applicable:**

Major Applicable Course

## **COURSE CONTENT**

**Outcomes and Objectives:**

Students will be able to:

1. Identify the areas of the head and neck region of the human.
2. Describe the normal development of the structures of the head and neck.
3. Recognize developmental abnormalities, such as cleft lip and cleft palate.
4. Recognize the anatomical landmarks used in the administration of local anesthesia.
5. Describe the process of embryological development of the head and neck region of the oral cavity.
6. Explain the structural relationships of the oral cavity and how they function in a healthy state of dynamic equilibrium.
7. Identify normal histological structures of the head and neck, including the oral cavity.
8. Describe the anatomical features of the head and neck.
9. Apply knowledge of head and neck structures to extraoral and intraoral examination and administration of local anesthetics in clinical hygiene courses.

**Topics and Scope:**

1. Head and neck
  - a. basic cell biology
  - b. embryology and development and abnormalities
  - c. oral cavity
    - i. variances
    - ii. normal structures
    - iii. deformities
  - d. sinuses
  - e. landmarks
2. Neck and head

- a. salivary glands
  - b. lymphatic glands
  - c. landmarks
3. Skull
- a. morphology
  - b. landmarks
4. Temporomandibular joint (TMJ)
- a. normal physiology
  - b. abnormal physiology
5. Muscles of the head and neck
6. Teeth
- a. embryologic development
  - b. histology
7. Upper respiratory system
- a. paranasal sinuses
  - b. larynx
8. Circulatory system of the head and neck
- a. arteries
  - b. veins
9. Nervous system
- a. cranial nerves
  - b. parasympathetic nervous system (PNS)
  - c. innervation of the oral cavity
  - d. sensory organs
10. Lymphatic system
- a. inflammatory response
  - b. spread of infection

**Assignment:**

- 1. Completion of multimedia assignments
- 2. Reading 20-40 pages per week
- 3. Lab exercises: 15-30
- 4. Quizzes: 6-8 and 2 exams
- 5. Chapter exercises 10-20

**Methods of Evaluation/Basis of Grade:**

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing  
0 - 0%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Multimedia assignments, lab exercises

Problem solving  
10 - 20%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Model identification assignments, class performances, field work and performance exams

Skill Demonstrations  
25 - 35%

**Exams:** All forms of formal testing, other than skill performance exams.

Quizzes and exams

Exams  
50 - 60%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Attendance and class participation

Other Category  
5 - 10%

### **Representative Textbooks and Materials:**

Illustrated Anatomy of the Head and Neck, Fehrenbach, M. Herring, S., 2009, 3rd Ed. WB Saunders Co.

Illustrated Dental Embryology, Histology and Anatomy, Bath-Balogh, M., Fehrenbach, M., 2010, 3rd Ed. Elsevier

Instructor prepared materials