

DH 70 Course Outline as of Fall 2013**CATALOG INFORMATION**

Dept and Nbr: DH 70

Title: DENT ANAT & TOOTH MORPH

Full Title: Dental Anatomy and Tooth Morphology

Last Reviewed: 9/11/2023

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.50	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	2.50	Lab Scheduled	2.00	17.5	Lab Scheduled	35.00
		Contact DHR	0		Contact DHR	0
		Contact Total	4.00		Contact Total	70.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00

Total Student Learning Hours: 140.00

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:

The study of the dental terminology, tooth morphology, structures of the oral cavity, classification of cavities, and charting conditions of the teeth. Aspects related to dental hygiene care such as root morphology, restorative charting, occlusion, and dental anomalies are emphasized.

Prerequisites/Corequisites:

Concurrent Enrollment in DH 71A

Recommended Preparation:**Limits on Enrollment:**

Acceptance to the Allied Dental Programs

Schedule of Classes Information:

Description: The study of the dental terminology, tooth morphology, structures of the oral cavity, classification of cavities, and charting conditions of the teeth. Aspects related to dental hygiene care such as root morphology, restorative charting, occlusion, and dental anomalies are emphasized. (Grade Only)

Prerequisites/Corequisites: Concurrent Enrollment in DH 71A

Recommended:

Limits on Enrollment: Acceptance to the Allied Dental Programs

Transfer Credit: CSU;

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

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:

IGETC:	Transfer Area	Effective:	Inactive:
---------------	----------------------	------------	-----------

CSU Transfer:	Transferable	Effective:	Fall 1999	Inactive:
----------------------	--------------	------------	-----------	-----------

UC Transfer:		Effective:		Inactive:
---------------------	--	------------	--	-----------

CID:

Certificate/Major Applicable:

Major Applicable Course

COURSE CONTENT

Outcomes and Objectives:

Upon completion of this course the student should be able to:

1. Name, describe and locate the anatomy of permanent and primary dentition.
2. Identify and explain the morphologic differences between the primary and permanent dentition.
3. List the eruption and exfoliation sequence of primary dentition and the eruption sequence of permanent dentition.
4. Define the descriptive terminology as related to the maxillary/mandibular arches, teeth, and related structures.
5. Differentiate anomalies of both permanent and primary dentition.
6. Demonstrate the Universal, International Standard Organization (ISO) and Palmer systems of charting.
7. Discuss how tooth anatomy and morphology determine instrumentation techniques.
8. Describe the classification of occlusion and recognize early signs of deviation in deciduous, mixed, and permanent dentitions.
9. Identify the regions of the oral cavity proper, and the head and neck.
10. Discuss the relationship of periodontal diseases and the support structures.
11. Analyze and respond to the types of concerns that a parent might ask a dental health professional regarding the importance and function of primary teeth.
12. Chart existing restorations, unsound dentition, missing teeth, impacted teeth and dental anomalies and conditions.
13. Discuss the clinical implications of anomalies, malocclusion, restorations, and oral habits on the dentition.

Topics and Scope:

I. Overview of dentition

A. Tooth types and functions

- B. Tooth tissues
- C. Tooth surfaces
- D. Two types of dentition
- E. Three stages of dentition
- F. Arrangement in the dental arches
- G. Divisions of the dental arches
- H. Fundamental and preventive curvatures
- II. Tooth numbering systems
 - A. Universal
 - B. International Standard Organization (ISO)
 - C. Palmer
- III. Support structures
 - A. Tissues
 - B. Function
 - C. Clinical considerations
 - D. Attachment apparatus
 - E. Periodontal diseases
- IV. Development, eruption and exfoliation
 - A. Primary dentition
 - B. Permanent dentition
- V. Tooth anatomy and identification
 - A. Primary teeth
 - B. Permanent
- VI. Occlusion
 - A. Angle's Classifications of Malocclusion
 - B. Primary occlusion
 - C. Terminology
 - D. Periodontal considerations associated with occlusal trauma
- VII. Dental anomalies
 - A. Intrinsic and extrinsic factors
 - B. Developmental, hereditary, and congenital
 - C. Types of anomalies
- VIII. Dental charting
 - A. Black's Classification of Carious Lesions
 - B. Common abbreviations
 - C. Recognition of restorations and dental materials
 - D. Charting symbols
 - E. Caries and risk assessment
 - F. Dental charting form
- IX. Extra and intraoral exam
 - A. Identification of structures
 - B. Palpation techniques
 - C. Assessment methods
- X. Clinical considerations
 - A. Prevention
 - B. Root anatomy
 - C. Tooth morphology
 - D. Malocclusion
 - E. Oral habits
 - F. Instrumentation techniques
 - G. Restorations
 - H. Occlusion

Assignment:

1. Reading assignments, (10-20) pages per week
2. Evaluations (6-10)
Skill demonstrations; extra and intraoral exam
Problem solving; teeth anatomical features and identifications, oral cavity and facial landmarks, identifications of restorations, occlusion, eruption and exfoliation sequence
3. Homework-charting assignments (4-6)
4. Homework-teeth drawings
5. Quizzes (4-8)
6. Exams (written and laboratory midterm and finals)

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 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.

Teeth anatomical features and identification, oral cavity and facial landmarks, identification of restorations, occlusion, eruption and exfoliation sequences.

Problem solving
30 - 40%

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

Extra and intraoral exam, charting assignments, teeth drawings.

Skill Demonstrations
10 - 20%

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

Quizzes, written and laboratory midterm, written and laboratory final.

Exams
40 - 50%

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

None

Other Category
0 - 0%

Representative Textbooks and Materials:

Illustrated Dental Embryology, Histology, and Anatomy, Bath-Balogh, M. and Fehrenbach, M.

Elsevier, 3rd Ed. 2011.

Illustrated Dental Embryology, Histology, and Anatomy (Student Workbook), Bath-Balogh, M. and Fehrenbach, M. Elsevier, 3rd Ed. 2011.

Clinical Practice of the Dental Hygienist, Wilkins, Esther M., Lippincott Williams & Wilkins, 11th Ed., 2013.

Torres and Ehrlich Modern Dental Assisting, Bird, D. and Robinson, D., Elsevier, 10th Ed., 2012.