

COURSE INFORMATION

COURSE PREFIX/NO:	DAT 118
COURSE TITLE:	Dental Morphology
LEC HRS/WEEK:	2.0
LAB HRS/WEEK:	0.0
CREDIT HRS/SEMESTER:	2.0

DL ATTENDANCE/VA STATEMENT TEXTBOOK INFORMATION

COURSE DESCRIPTION:

This course emphasizes the development, eruption, individual characteristics of each tooth and surrounding structures.

Pre-Requisite: Admission into the Dental Assisting Program

Co-Requisites: DAT 112, DAT115, DAT 113, DAT154, DAT118, DAT121

COURSE COMPETENCIES

1. Explain the embryonic development and histology of the orofacial complex and of the teeth in relationship to normal and abnormal development.
2. Identify anatomy and landmarks of the face and oral cavity.
3. Define anatomical and morphological nomenclature, as applied to the human dentition.
4. Identify each tooth in the primary and permanent dentition based on the morphological characteristic.
5. Describe the eruption sequence of primary and permanent dentition.
6. Describe the morphological differences of the primary and permanent dentition.
7. Identify the various classifications of occlusion.
8. Demonstrate charting of the dentition by charting procedures that have been completed and treatment
9. that needs to be rendered.

TEXT:

Modern Dental Assisting, Torres & Ehrlich, 6th ed.

Fundamentals I: Introduction to Dental Terminology, Charting and Procedures, Ann Ehrlich, 2nd ed.

Dental Clinic Manual

REFERRAL TEXT:

Illustrated Dental Embryology, Histology and Anatomy, Mary Bath-Balough,
Margaret J. Fehrenbach

Mosby's Medical, Nursing and Allied Health Dictionary, 4th ed.

COURSE REQUIREMENTS:

In order to successfully complete DAT 118, the student is required to fulfill the following requirements:

1. attend lecture sessions
2. complete all assignments prior to the lecture session
3. successfully complete all written tests, quizzes and unit exercises with a minimum grade average of 70%

METHODS OF INSTRUCTION:

Lecture
Discussions
Overhead
Projections
Classroom
Exercises

USE OF:

Plastic Models
Extracted Teeth (if available)

EVALUATION

STRATEGIES:

Testing:

Students will be evaluated on Dental Morphology by taking written tests, unit exercises and quizzes. The test will be multiple choice, matching, theory application questions, essay and charting procedures of the dentition.

Absenteeism:

Students who are to be absent for the lecture must contact the instructor prior to the class. If you are absent on a test day for whatever reason, you will have ten (10) points deducted from your make up exam. This exam must be made up before the next class period. Exams will be reviewed after grading then returned to the instructor.

Any absence in excess of two (2) will be grounds for dismissal from the DAT Program. **If a student is absent more than three (3) consecutive days, a doctor's statement will be needed.**

Grading:

The final grade for DAT 118 will be determined by averaging the grades on all written

tests (quizzes and unit exercises will be averaged as a test grade), midterm and final exams.

Grade scale:

A 100-90
B 89-80
C 79-70
F 69-below

Tests	75%
Midterm Exam	10%
Final Exam	15%
	100%

DENTAL MORPHOLOGY DAT 118

Course Outline

I. Dental Embryology

A. Pregnancy

1. Prenatal Health
2. Nutrition

B. Prenatal Development

1. Preimplantation Period
2. Embryonic Period
3. Fetal Period

C. Development of the Face and Oral Cavity

1. Primary embryonic layers
2. Early development of the mouth
3. Prenatal Facial development
4. Prenatal Dental development

D. Life Cycle of a Tooth

1. Growth
2. Calcification
3. Eruption
4. Exfoliation

E. Developmental Disturbances

1. Known Teratogens involved in congenital malformations
2. Disturbances in the development of the jaws
3. Disturbances in the development of the lips, palate, and tongue.
4. Disturbances in tooth development and eruption

II. Oral Histology

A. Anatomic Parts of the Tooth

1. Crown
2. Root
3. Cervix

B. Tissues of the Tooth

1. Enamel
2. Dentin
3. Cementum
4. Pulp

C. Periodontium

1. Attachment Apparatus
2. Alveolar Process
3. Periodontal Ligament
4. Gingival Unit

III. Anatomy of the Face and Oral Cavity

1. Landmarks of the face
2. Anatomy of the lips
3. Oral Cavity
 - a. vestibules
 - b. jaws and alveolar processes
 - c. gingiva
 - d. oral cavity proper
 - e. palate
 - e. tongue
 - f. floor of the mouth
 - g. pharynx
 - h. epiglottis
 - i. larynx
 - j. lymph nodes
 - k. salivary glands

IV. Tooth Morphology

A. Types of Teeth (anterior and posterior)

1. incisors
2. canines
3. premolars
4. molars

B. Dental Arches

1. maxillary
2. mandibular
3. quadrants and sextants

C. Tooth Surfaces

1. facial, labial, buccal
2. lingual
3. mesial and distal
4. incisal and occlusal
5. proximal surface and interproximal space

D. Lines, Point Angles, and Divisions

E. Dental Charting and Numbering Systems

F. Anatomic Features of the Teeth

1. contours
2. contacts
3. embrasures

G. Primary Dentition

1. number
2. crown size
3. root design

H. Permanent Dentition

1. number
2. morphology of anterior teeth
3. morphology of posterior teeth

V. Occlusion

1. centric
2. functional
3. malocclusion