

LABETTE COMMUNITY COLLEGE BRIEF SYLLABUS

SPECIAL NOTE:

This brief syllabus is not intended to be a legal contract. A full syllabus will be distributed to students at the first class session.

TEXT AND SUPPLEMENTARY MATERIALS USED IN THE COURSE (if any):

Please check with the LCC bookstore <http://www.labette.edu/bookstore> for the required texts for this class.

COURSE NUMBER: DNAS 119

COURSE TITLE: DENTAL ANATOMY

SEMESTER CREDIT HOURS: 2

DEPARTMENT: Dental Assistant

DIVISION: Health Science

PREREQUISITES: Acceptance into Dental Assistant Program

REVISION DATE: February 2016

COURSE DESCRIPTION:

This course covers the development of the oral cavity, teeth, and supporting structures. The primary and permanent teeth are studied in detail as well as the major anatomic landmarks of the head and neck. Also included is dental charting of teeth and conditions.

COURSE OUTCOMES AND COMPETENCIES:

Students who successfully complete this course will be able to:

1. Summarize the embryological and histological events of tooth development.

- Discuss prenatal influences on dental development.
- Describe the functions of osteoclasts and osteoblasts.
- Describe the steps in the formation of the palate.
- Describe the stages in the development of a tooth.
- Discuss genetic and environmental factors that can affect dental development.
- Discuss the life cycle of a tooth.
- Differentiate between the clinical and anatomic crowns.
- Identify and describe tissues of the teeth.
- Describe the structure and location of dental pulp.
- Identify the components of the periodontium.
- Describe various types of oral mucosa and give an example of each.

2. Identify and locate bones and other important landmarks of the head and neck.

- Identify the regions of the head.
- Locate and identify the bones of the cranium and face.
- Locate and identify the muscles of the head and neck.
- Identify the components of the temporomandibular joint (TMJ).
- Describe the action of the TMJ.
- Identify the location of major and minor salivary glands.
- Describe and locate the divisions of the trigeminal nerve.
- Identify and locate the paranasal sinuses of the skull.
- Identify the location of major lymph node sites of the body.

3. Identify oral cavity and facial landmarks.

- Identify and label the landmarks of the face.
- Identify and label the landmarks of the oral cavity.
- Describe the structures found in the vestibular region of the oral cavity.
- Describe the area of the oral cavity proper.
- Summarize the characteristics of normal gingival tissue.
- Locate and describe the functions of the taste buds.

4. Summarize, describe, and identify primary and permanent dentition by utilizing various descriptive terminologies, classifications, and numbering systems.

- Explain how size and shape of teeth determine the functions of different types of teeth.
- Locate and identify each tooth surface.
- Utilize appropriate terminology to identify landmarks and features of the teeth...
- Compare and contrast the features of primary, mixed, and permanent dentitions.
- Identify the location of each permanent tooth.
- Discuss the terms occlusion, centric occlusion, and malocclusion.
- Name and describe the three primary systems of tooth numbering.
- Discuss Angle's classification.
- Identify teeth using the Universal/National System, the Palmer Notation System, and the ISO/FDI System.

5. Perform dental charting and documentation to protect the integrity of the office and the practitioner.

- List and describe the examination and diagnostic techniques used for patient assessment.
- Discuss the role of the dental assistant in the clinical examination.
- Discuss the six categories of Black's classification of cavities.
- Differentiate between an anatomic and a geometric diagram for charting.
- Demonstrate charting of dental conditions.
- Explain the color coding of a chart diagram.
- Describe the need for an extraoral examination.
- Describe charting of the periodontium.

- Describe the pocket depth and bleeding index of the gingival tissues and the recording process.
- Describe the need for a soft tissue examination.
- Demonstrate the soft tissue examination.
- Discuss the importance of a treatment plan.
- List the various components the dental assistant should have ready for the presentation of a treatment plan.