

DHYG 114 : Oral History & Embryology

Credits 2

This course explores the embryologic formation and the histologic processes of the oral cavity. Normal and abnormal structures of the head and oral cavity, as well as microscopic anatomy of the oral cavity are studied. This class may include students from multiple sections.

Course Outcomes

- Explain the major events of embryologic development as they relate to the orofacial complex.
- Analyze the process of facial development including disturbances in development.
- Describe the types of clefts that occur in the face and palate and when they are likely to develop.
- Explain the contribution of branchial arches to facial, palatal and tongue development.
- Describe and diagram the process of odontogenesis.
- Explain the processes of amelogenesis, dentinogenesis & cementogenesis.
- Explain the process of root formation and eruption.
- Identify the histologic structures of enamel, dentin, and cementum.
- Discuss the dentin-pulp complex and the properties of dentin and pulp.
- Define and describe the histology of the periodontium including alveolar bone, periodontal ligament fibers and oral mucosa.
- Diagram, describe and identify the histologic structures and functions of the gingiva and oral mucosa including lining, masticatory and specialized types.
- Identify and diagram the histologic structures of the salivary glands.
- Discuss clinical issues that integrate embryology and histology with patient treatment.