

Course Syllabus

**DHYG 1301 – Orofacial Anatomy, Histology & Embryology
Course Rubric**

Course Description: A study of histology and embryology of oral tissues, gross anatomy of the head and neck, tooth morphology and individual tooth identification.

Semester Hours Credit: 3

Lecture/Lab Hours: 2/3

Prerequisite: N/A

Textbook(s): Anatomy of Orofacial Structures, Brand, Richard, 6th edition, Saunders/Elsevier, ISBN# 9781455703708

Student Learning Outcomes:

1. Utilize communication skills to name the embryonic structures that form the face and approximate age of formation.
2. Utilize empirical and quantitative skills to identify the main embryonic structures that are involved in the formation of the upper lip and the nose.
3. Utilize personal and social responsibilities to name and identify the embryonic structures that are involved in the formation of the palate and the tongue.
4. Utilize critical thinking skills to describe the embryonic development of the teeth.
5. Utilize communication skills to differentiate the microscopic and histological features of the developing tooth.
6. Utilize personal and social responsibilities to recognize the composition, formation, arrangements, names, and functions of teeth.
7. Utilize critical thinking skills to identify basic dental anatomy of the tooth.
8. Utilize empirical and quantitative skills to list the eruption schedule of teeth, both deciduous and permanent.
9. Utilize personal responsibility to compare the basic differences between the deciduous and permanent dentition.

10. Utilize critical thinking skills to recognize the microscopic, histologic and gross anatomic features of the periodontium.
11. Utilize communication skills to describe the microscopic, histologic and gross anatomic features of the oral mucous membranes.
12. Utilize empirical and quantitative skills to identify the gross anatomic features and physiologic functions of the tongue.
13. Utilize critical thinking skills to name the bones of the neurocranium and the viscerocranium and list characteristics of each.
14. Utilize communication skills to label the various parts and landmarks of the maxillae and the mandible.
15. Use critical thinking skills to locate and describe muscles of the head and neck, including origin, insertion and action muscles.
16. Utilize critical thinking skills to trace the arterial supply from the heart to all areas of the oral cavity, including all the teeth.
17. Utilize critical thinking skills to trace the venous drainage from the teeth and oral cavity back to the heart.
18. Utilize communication skills to name, locate and describe the difference between major and minor salivary glands.
19. Utilize empirical and quantitative skills to recognize and describe the TMJ as to parts and function.
20. Utilize communication skills to name, classify locate and describe innervation by the twelve cranial nerves.
21. Utilize communication skills to name and describe the paranasal sinuses as to location and function.
22. Utilize empirical and quantitative skills to define and classify normal occlusion and malocclusion.
23. Utilize critical thinking skills to recall and describe three different tooth numbering systems.
24. Utilize personal and social responsibilities to distinguish boundaries and sub-boundaries of the oral cavity and the structures found there.
25. Utilize critical thinking skills to recognize the landmarks in the floor of the mouth, the hard and soft palate and the structures that form them.
26. Utilize communication skills to list and identify at least five major external characteristics of the permanent teeth.
27. Utilize empirical and quantitative skills to describe the lymphatic system and trace the spread of dental infection.
28. Utilize critical thinking skills to define and classify anomalies of the tooth crown and root.
29. Utilize personal and social responsibilities to list the preventative clinical considerations.
30. More specific learning objectives may be found at the beginning of each chapter in the textbook.
31. END-OF-COURSE OUTCOMES: Utilize empirical and quantitative skills to construct the histological and embryological development of the orofacial structures; locate the major structures of the head and neck; and compare and contrast various teeth including the crown and root morphology.

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