

Course Objectives/Course Outline
Spokane Community College

Course Title: *Dental Anatomy*

Prefix and Course Number: DENT 118

Course Learning Outcomes:

By the end of this course, a student should be able to:

1. Use dental nomenclature.
2. Define terminology used in this unit.
3. Demonstrate professional interpersonal communication both verbal and nonverbal with instructors, peers and patients.
4. Identify and practice appropriate ethics when in lecture.
5. List the body systems, planes, and directions, and cavities of the body and describe the structure and function of a cell.
6. Explain the functions and structures of the following systems:
 - a. Skeletal, Muscular, Nervous, Circulatory, Digestive, Respiratory
7. List and identify the landmarks of the face and the oral cavity.
8. List and identify the bones of the cranium and face.
9. List and identify the bones of the maxilla and mandible including TMJ.
10. List and identify the muscles of:
 - a. Mastication, Facial Expressions, Floor of the Mouth, The Tongue, throat & shoulders
11. List and identify the nerves and arteries of the maxilla and mandible including head and neck.
12. Identify the terms and times of the three prenatal phases of pregnancy.
13. Describe how the human face develops and changes during the zygote and embryonic phases.
14. Describe the life cycle of a tooth and identify the stages.
15. Identify the four primary structures of the tooth and the location and function of each.
16. Identify the substance of enamel, dentin, cementum, and pulp including their identifying marks.
17. Identify the composition of the periodontium and the alveolar bone.
18. Describe the structures of the gingiva and the mucosa.
19. Identify the dental arches and quadrants using the correct terminology.
20. List the primary and permanent teeth by name and location.
21. Explain the eruption schedule for primary and permanent teeth.
22. Identify the surfaces of each tooth and their locations.
23. List the anatomical structures and their definitions.
24. Describe each permanent and primary tooth according to:
 - a. Location, Anatomical features, Morphology, Function & Position
25. Explain why charting is used in dental practices.
26. Identify chart symbols used representing conditions in the oral cavity.
27. List and explain the systems used for charting the permanent and deciduous dentitions.
28. Define G.V. Black's six cavity classifications.
29. List common abbreviations used to identify cavities.
30. Describe basic dental charting terminology.
31. Explain color indicators and identify charting symbols.

Course Outline:

General Anatomy:

- a) Body systems, planes and cavities
- b) Skeletal system
- c) Muscular system
- d) Nervous system
- e) Circulatory system
- f) Digestive system
- g) Respiratory system

Head and Neck Anatomy:

- a) Landmarks of the face, oral cavity, tongue, floor of mouth & glands
- b) Bones of the cranium, face, maxilla & mandible
- c) Muscles of mastication, facial expression, floor of the mouth, tongue, throat, neck and shoulders.
- d) Nerves of maxilla and mandible
- e) Arteries and veins of the head and neck

Embryology and Histology:

- a.) Prenatal phases of pregnancy
- b.) Development of the human face
- c.) Zygote and Embryotic phase
- d.) Identify tooth structure and location
 - i. Enamel
 - ii. Dentin
 - iii. Cementum
 - iv. Pulp
- e.) Identify Anatomy of the Periodontium
 - i. Alveolar bone
 - ii. Gingiva
 - iii. Mucosa

Tooth Morphology:

- a) Dental arches and quadrants
- b) Primary and Permanent teeth
 - iv. Names and Location
 - v. Anatomical features
 - vi. Position & Function
 - vii. Eruption schedule
 - viii. Surfaces and Division of a tooth

Dental Charting:

- a) Explain the necessity for charting
- b) Identify charting landmarks including symbols representing conditions for both adult and deciduous patients
- c) G.V. Black six cavity classifications
- d) Terminology, abbreviations and color indicators