

# Cape Cod Community College

## Departmental Syllabus

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Prepared by the Department of: Health Sciences

Date of Departmental Approval: January 18, 2018

Date approved by Curriculum and Programs: February 14, 2018

Effective: Fall 2018

1. **Course Number:** DEN102  
**Course Title:** Oral Tissues II
2. **Description:** In this course designed for 2nd semester dental hygiene students, the student learns the basic histology of the teeth and supporting structures of the oral cavity. The second part of the course covers the anatomy of the head and neck with emphasis on the bones of the skull, muscles, nerves and blood supply to the oral structures.
3. **Student Learning Outcomes:** Upon successful completion of this course, the student will demonstrate a working knowledge of the microscopic structures of the oral cavity and an understanding of the anatomy of the head and neck related to dental hygiene.
  - a. **General Course Objectives:** At the end of this course, the student will be able to:
    - i. Describe the Bud, Cap, and Bell stages of tooth development.
    - ii. Describe the microscopic/macrosopic structures, physical characteristics, and chemical properties of enamel.
    - iii. Describe the location, composition, structure, physical characteristics, and chemical properties of dentin.
    - iv. Describe the location, composition, and structure of pulp.
    - v. Describe the location, composition, structure, and physical characteristics of cementum.
    - vi. Describe the process of root formation.
    - vii. Describe the location, composition, structure and purpose of the periodontal ligament.
    - viii. Describe the anatomy of the alveolar process.
    - ix. Describe the process of eruption and exfoliation.
    - x. Describe the bones of the skull and muscle attachments.
    - xi. Describe the structure of the oral cavity, including the tongue, oral mucosa, underlying muscles, blood, nerve, lymphatic supply and glands.
    - xii. Describe the structure and function of the temporomandibular joint.
    - xiii. Describe the action, innervation, and blood supply of the muscles of mastication and facial expression.
    - xiv. Describe the location and function of the cranial nerves.
4. **Credit(s):** 2 credits
5. **Satisfies General Education Requirement:** No
6. **Prerequisite(s):** DEN101 (Oral Tissues I)
7. **Semester(s) Offered:** Spring
8. **Suggested General Guidelines for Evaluation:** Classroom participation, announced quizzes, midterm exam and final exam. Students successfully passing the course must receive a grade of C or better which will be entered onto their college transcripts. Students must achieve a grade of C or better in all Dental Hygiene courses in order to continue in the Dental Hygiene Program.

### 9. General Topical Outline (Optional):

Week 1	Course Introduction Embryonic terms Early Development of Teeth
Week 2	Formation of Hard Tooth Structures Dentin
Week 3	Enamel

Week 4	Root Formation Cementum Pulp
Week 5	Periodontal Ligament Alveolar Process Oral Mucous Membrane
Week 6	Eruption and Shedding Tongue
Week 7	Salivary Glands
Week 8	Bones of the Skull
Week 9	Nasal Cavity and Paranasal Sinuses Temporomandibular Joint
Week 10	Muscles of the Head and Neck: Muscles of Facial Expression
Week 11	Muscles of the Head and Neck: Muscles of Mastication, Neck, Soft Palate, Pharynx
Week 12	Cranial Nerves
Week 13	Vascular System of Head and Neck
Week 14	Lymphatic System
	Final Exam – Date TBA