

Montgomery County Community College
DHG 159
Histology and Pathology of Oral Tissues
3-3-0

COURSE DESCRIPTION:

This course presents the development and microscopic anatomy of the cells, tissues, and organs of the oral cavity. Building on the concepts of general histology and embryology, the nature of disease is addressed with respect to etiology, mechanism of disease formation and the body's response to injury. The clinical presentation of basic disease processes that affect the oral cavity and the clinical and histological recognition of oral neoplasia are emphasized.

PREREQUISITE(S):

DHG 100-Theory & Practice of Dental Hygiene 1
DHG 111-Dental Anatomy
DHG 155-Dental Radiography

CO-REQUISITE(S):

DHG 158 - Theory and Practice of Dental Hygiene II
DHG 161 - Periodontics I

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Describe the histological development of tissues.	Lecture Group Discussion Case Studies Games Learning Modules	Case-Based Exams Discussion Board Postings Projects
2. Discuss the embryologic development of the face.	Lecture Group Discussion Case Studies Games Learning Modules	Case-Based Exams Discussion Board Postings Projects
3. Differentiate between normal versus abnormal tissue.	Lecture Group Discussion Games Collaborative Assignments Case Studies Learning Modules	Case-Based Exams Discussion Board Postings Projects

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
4. Describe the basic process of disease formation.	Lecture Group Discussion Collaborative Assignments Case Studies Games Learning Modules	Case-Based Exams Discussion Board Postings Projects
5. Identify the pathologic tissue alterations occurring within the oral cavity.	Lecture Group Discussion Collaborative Assignments Case Studies Games Learning Modules	Case-Based Exams Discussion Board Postings Projects
6. Discuss the oral conditions that affect patient treatment.	Lecture Group Discussion Collaborative Assignments Games Learning Modules Case Studies	Case-Based Exams Discussion Board Postings Projects

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Director of Educational Effectiveness. The benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria.*

SEQUENCE OF TOPICS:

1. Epithelium, Connective Tissue, and Oral Mucosa
2. Salivary Glands
3. Cartilage and Bone including TMJ/Disorders
4. Blood, Nerve and Lymph Tissue
5. Embryology of the Face and Oral Cavity
6. Tooth Eruption
7. Dentogingival Junction
8. Dentin and Pulp
9. Enamel
10. Cementum and Alveolar Bone
11. Periodontal Ligament
12. Introduction to Pathology
13. Developmental Disorders
14. Genetics
15. Inflammation and Inflammatory Lesions
16. Immunity
17. Infectious Diseases including HIV
18. Non -Neoplastic Diseases of Bone

19. Neoplasia
20. Oral Manifestations of Systemic Diseases

LEARNING MATERIALS:

Texts:

Fehrenbach, M. and Popowics, T. (2020). *Illustrated Dental Embryology, Histology and Anatomy* (5th ed.). St. Louis: Elsevier-Saunders. (2020)

Ibsen, O and Scott M. *Oral Pathology for the Dental Hygienist* (8th ed.). St. Louis: Elsevier. (2023)

Newland, Robert J. et al. *Oral Soft Tissue Diseases: Seventh Edition*, Hudson, Ohio: Lexicomp., 2017.

Other:

Clinic Handbook, Montgomery County Community College
Proctor and Gamble Continuing Education Credits provided by www.dentalcare.com

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

COURSE APPROVAL:

Prepared by: Rosemary Herman, RDH, M.Ed. Date: 1/2010
VPAA/Provost Compliance Verification: Dr. John C. Flynn, Jr. Date: 4/27/2010

Revised by: Jenny Sheaffer Date: 10/16/2012
VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D. Date: 11/1/2012

Revised by: Rosemary Herman, RDH, M.Ed. Date: 12/14/2017
VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D. Date: 1/8/2018

Revised by: Kimberly Beadencup Date: 3/23/2023
VPAA or designee Compliance Verification: Date: 4/25/2023



This course is consistent with Montgomery County Community College's mission. It was developed, approved, and will be delivered in full compliance with the policies and procedures established by the College.