

Montgomery County Community College
DHG 228
Theory and Practice of Dental Hygiene III
8-4-20

COURSE DESCRIPTION:

The course introduces the student to the general pathology and physiology of relevant diseases and conditions that may present in the clinical setting. Discussion includes the methods of treatment and the oral health impact of the disease or treatment. The recognition and management of medical emergencies will also be examined. Special emphasis will be given to diseases, condition and drugs of importance in clinical dentistry. Further, this course is designed to broaden the realm of clinical procedures performed by the dental hygiene student and to enhance the student's abilities to integrate basic, dental and psychosocial sciences in evaluating, planning and implementing a comprehensive dental hygiene treatment plan for varied patient populations. This course is subject to a course fee. Refer to <http://mc3.edu/adm-fin-aid/paying/tuition/course-fees> for current rates.

REQUISITES:*Previous Course Requirements*

- DHG 224 Materials in Dentistry
- DHG 226 Dental Pain Control

Previous or Concurrent Course Requirements

- DHG 261 Periodontics II

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Explore the epidemiology, pathophysiology, clinical presentation, complications, medical, pharmaceutical and dental management as well as special considerations of diseases and conditions that impact oral health care delivery.	Lectures Selected Readings Problem-Based Learning Written Assignments Clinical Experiences	Examinations Clinical Evaluation Written Assignments

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
2. Discuss current pharmacologic management of systemic and oral diseases.	Lectures Selected Readings Written Assignments Clinical Experiences	Examinations Clinical Evaluation Written Assignments
3. Integrate knowledge of cultural diversity with the provision of dental hygiene care.	Lectures Class Discussions Class Activities Clinical Experiences	Examinations Written Assignments Clinical Evaluation
4. Describe the changes in aging that may have an impact on oral health.	Lectures Selected Readings Written Assignments Clinical Experiences	Examinations Clinical Evaluation Written Assignments
5. Discuss the predisposing factors, prevention, clinical manifestations and management of medical emergencies that may present in the dental setting.	Lectures Selected Readings Problem-Based Learning Written Assignments Clinical Experiences	Examinations Group Presentations Clinical Evaluation Written Assignments
6. Assist in the management of medical emergencies that may present in the dental setting.	Lectures Selected Readings Clinical Experiences	Examinations Group Presentations
7. Demonstrate competency in the assessment and treatment planning of medically compromised/special needs patients.	Lectures Selected Readings Problem-Based Learning Written Assignments Clinical Experiences	Examinations Clinical Evaluation Written Assignments Journal
8. Demonstrate clinical competency in the assessment, planning, treatment and evaluation of patients with chronic periodontitis with slight to moderate bone loss and calculus.	Lectures Selected Readings Class Discussions Written Assignments Clinical Experiences	Clinical Evaluation Written Assignments Journal

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
9. Implement effective strategies to provide individualized oral health care plans and dental hygiene care for special needs populations.	Lectures Selected Readings Class Discussions Problem-Based Learning Written Assignments Clinical Experiences	Clinical Evaluation Written Assignments Journal

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 Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria*.

SEQUENCE OF TOPICS:

1. Cultural Diversity and Dental Hygiene Care
2. Introduction to Drugs
3. Physical Evaluation and Risk Assessment
4. Prevention and Management of Medical Emergency Conditions
5. Introduction to Problem-Based Learning
6. Cardiovascular Disease
7. Table Clinic Rehearsals
8. Pulmonary Disease
9. Gastrointestinal Disease
10. Genitourinary Disease
11. Endocrine and Metabolic Disorders
12. Immunologic Disorders
13. Hematologic and Oncologic Disorders
14. Neurologic, Behavioral and Psychiatric Disorders

LEARNING MATERIALS:

Texts:

- Darby, Michele and Walsh, Margaret. (2015). *Dental Hygiene Theory and Practice* (4th ed.). Philadelphia: W.B. Saunders Co.
- Darby, Michele L. and Bushel, Eleanor J. (2012). *Mosby's Comprehensive Review of Dental Hygiene* (7th ed.). St. Louis: The C.V. Mosby Co.
- Ianucci, Joen and Howerton, Laura. (2011). *Dental Radiography: Principles and Techniques* (4rd ed.). Philadelphia: W.B. Saunders Co.
- Little, James W., Falace, Donald A., Miller, Craig S., Rhodus, Nelson L. (2013). *Dental Management of the Medically Compromised Patient* (8th ed.). Philadelphia: The C.V. Mosby Co.
- Malamed, Stanley F. (2013). *Medical Emergencies in the Dental Office* (6th ed.). St. Louis: The C.V. Mosby Co.

Nield-Gehring, Jill S. (2008). *Fundamentals of Periodontal Instrumentation and Advanced Root Instrumentation* (6th ed.). North Carolina: Lippincott, Williams and Wilkins.

Weinberg, Mea A., Westphal-Thiele, Cheryl M., Fine, James Burke (2013). Oral Pharmacology For The Dental Hygienist. 2nd Ed Upper Saddle River, NJ: Pearson Education.

Stedman's *Concise Medical Dictionary for the Health Professions*, Illustrated, with CD-ROM (6th ed.). Philadelphia: Lippincott Williams and Wilkins, 2008.

Wilkins, Esther M. (2013). *Clinical Practice of the Dental Hygienist* (11th ed.). Philadelphia: Lippincott Williams and Wilkins.

Other:

American Dental Association, *Chairside Instructor*.

Clinic Handbook, Montgomery County Community College, 2017-2018.

Course enhancement through the use of Blackboard; an online course management platform.

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: Brenda Sue Martin, RDH, M.S.

Date: 8/2009

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: L. Teal Mercer

Date: 11/13/2017

VPAA/Provost or designee Compliance Verification:

Date: 1/8/2018



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.