

Montgomery County Community College
DHG 225
Oral Pharmacology
2-2-0

COURSE DESCRIPTION:

The course introduces the student to the general principles of applied pharmacology, including: drug action, interaction, adverse reactions, handling, and prescription writing. Drugs for management of medical diseases and conditions are examined as they affect the clinical practice of dental hygiene. Drugs utilized in dentistry are examined as to how they may alter dental treatment. Stressed is the pharmacology related to medical and dental emergencies.

REQUISITES:*Previous Course Requirements*

- DHG 158 Theory & Practice of Dental Hygiene II
- DHG 159 Histology & Pathology of Oral Tissues
- DHG 161 Periodontics I

Concurrent Course Requirements

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

COURSE COMMENT(S):

None

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. List commonly prescribed medications that impact oral health.	Lectures Selected Readings Class Activities Written Assignments	Homework Quizzes Examinations Case Studies Written Assignments
2. Explain how drugs impact medical emergencies.	Lectures Selected Readings Class Activities Written Assignments Problem-Based Learning	Quizzes/Exams Case Studies Written Assignments

LEARNING OUTCOMES :	LEARNING ACTIVITIES	EVALUATION METHODS
3. Differentiate between side and adverse reactions.	Lectures Selected Readings Written Assignments Problem-Based Learning	Examinations Quizzes Written Assignments Classroom Discussion
4. Describe the mechanism of action for pain management drugs.	Lectures Selected Readings Written Assignments	Examinations Quizzes Homework Classroom Discussion
5. Explain the use of common dietary supplements.	Lectures Selected Readings Written Assignments Problem-Based Learning	Examinations Written Assignments Classroom Presentation

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. Course Introduction
2. Drug Action and Handling
3. Autonomic Pharmacology
4. Cardiovascular Pharmacology
5. Respiratory Pharmacology
6. Gastrointestinal Pharmacology
7. Anti-infective Pharmacology
8. Pharmacology of Pain Relief
9. Central Nervous System Pharmacology
10. Endocrine Pharmacology
11. Dietary Supplements

LEARNING MATERIALS:

Required Texts

Weinberg, Mae A., Theile, Cheryl M.W., Fine, James Burke. (2013). Oral Pharmacology for the Dental Hygienist. 2nd Ed Boston: Pearson Education.

Other:

Lexicomp on-line drug reference

<https://online.lexi.com/lco/action/home>

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: Kimberly Erdman Date: 9/12/2018

VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D. Date: 3/19/2019

Revised by: Kimberly Erdman Date: 3/1/2021

VPAA/Provost or designee Compliance Verification: Gloria Oikelome, Ed.D. Date: 3/10/2021

Revised by: Kimberly Erdman Date: 3/2023

VPAA or designee Compliance Verification: Date: 5/2/2023



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.