

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

