

Course discipline/number/title: DH 2533: Dental Pharmacology**A. CATALOG DESCRIPTION**

1. Credits: 2
2. Hours/Week: 2
3. Prerequisites (Course discipline/number): CHEM 1117, DH 1520, DH 1521
4. Other requirements: None
5. MnTC Goals (if any): NA

B. COURSE DESCRIPTION: This course is a survey of drug groups with special emphasis on the drugs in dentistry. The course will include content in the following: physical and chemical properties of the drugs covered, routes of administration, therapeutic and adverse effects, and drug interactions.

C. DATE LAST REVISED (Month, year): December, 2023

D. OUTLINE OF MAJOR CONTENT AREAS:

1. Principles of Pharmacology
2. Drug action and handling
3. Autonomic drugs
4. Analgesic agents
5. Anti-infective, antifungal, and antiviral agents
6. Anti-anxiety agents
7. Cardiovascular drugs
8. Anticonvulsant agents
9. Psychotherapeutic agents
10. Autacoids, antihistamines, and adrenocorticosteroids
11. Other hormones and antineoplastics
12. Respiratory and GI drugs
13. Management of oral conditions

E. LEARNING OUTCOMES (GENERAL): The student will be able to:

1. Interpret basic science aspects and applied pharmacology.
2. Recognize common medications clients may be taking when they present for dental treatment and know their basic function.
3. Utilize reference resources to identify medications which may contraindicate or complicate dental treatment.
4. Illustrate the basics of prescription writing.
5. Evaluate for possible medical/dental emergencies which may arise during dental treatment due to drug interactions.
6. Discuss the basic principles of pharmacology.
7. Identify drugs prescribed and used by the dental profession.
8. Understand the dental hygienist's role in the pharmacologic management of oral disorders.
9. Summarize the chemical action of general anesthetics, nitrous oxide, and local anesthetics.
10. Identify medical conditions and medications that may alter the oral health of a patient.
11. Distinguish medical conditions and medications that may make it necessary to alter the treatment of a patient.
12. Recognize signs of drug abuse in dental patients.
13. Describe the drugs that may be useful in dental office emergencies.
14. Identify basic medical terminology as it relates to the study of pharmacology.

F. LEARNING OUTCOMES (MNTC): NA**G. METHODS FOR EVALUATION OF STUDENT LEARNING:** Methods may include but are not limited to:

1. Quizzes
2. Prescription writing
3. Worksheet assignments/class ac
4. Written/oral final presentation

- H. **RCTC CORE OUTCOME(S).** This course contributes to meeting the following RCTC Core Outcome(s):
Critical Thinking. Students will think systematically and explore information thoroughly before accepting or formulating a position or conclusion.
- I. **SPECIAL INFORMATION (if any):** None