COMMON COURSE OUTLINE: Course discipline/number/title: DH 2533: Dental Pharmacology

A. CATALOG DESCRIPTION
   1. Credits: 2
   2. Hours/Week: 2 hours lecture
   3. Prerequisites (Course discipline/number): CHEM 1117, DH 1520, DH1521, Basic math and college level reading
   4. Co-requisites (Course discipline/number): None
   5. MnTC Goals (if any): NA

   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.

B. DATE LAST REVISED (Month, year): September, 2011

C. 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. Autocoids, antihistamines, and adrenocorticosteroids
   11. Other hormones and antineoplastics
   12. Respiratory and GI drugs

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
   1. Integrate 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. Write a prescription.
   5. Anticipate possible medical/dental emergencies which may arise during dental treatment due to drug interactions.
   6. Discuss the basic principles of pharmacology.
   7. Recognize drugs prescribed and used by the dental profession.
   8. Understand the dental hygienist's role in the pharmacologic management of oral disorders.
   9. Understand the chemical action of general anesthetics, nitrous oxide, and local anesthetics.
   10. Be familiar with medical conditions and medications that may alter the oral health of a patient.
   11. Identify 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. Discuss the drugs that may be useful in dental office emergencies.
   14. Understand basic medical terminology as it relates to the study of pharmacology.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
   1. Quizzes
   2. Comprehensive final exam
   3. Prescription writing
   4. Top 200 student presentation
G. RCTC CORE OUTCOME(S) ADDRESSED:
- Communication
- Critical Thinking
- Global Awareness/Diversity
- Civic Responsibility
- Personal/Professional Accountability
- Aesthetic Response

H. SPECIAL INFORMATION (if any): None