**Virginia Western Community College**

**DNH 235**

**Management of Dental Pain and Anxiety in the Dental Office**

**Prerequisites**

DNH 115, DNH 120, DNH 216

**Course Description**

Provides a study of anxiety and pain management techniques used in dental care. Students will understand the necessary theory to appropriately treat, plan and successfully administer topical anesthesia, local anesthesia, and nitrous oxide/oxygen analgesia. Includes the components of pain, pain control mechanisms, topical anesthesia, local anesthesia and nitrous oxide/oxygen analgesia. Prerequisites: DNH 115, DNH 120 and DNH 216.Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.2 credits

**Semester Credits: 2 Lecture Hours: 1 Lab/Clinical/Internship Hours:** 2

**Required Materials**

**Textbook:**

Bassett, Kathy B., DiMarco, Arthur C. and Naughton, Doreen K. (2015). Local Anesthesia for Dental Professionals – Second Edition. Upper Saddle River; Pearson.

**Other Required Materials:**

**None**

**Course Outcomes**

**At the completion of this course, the student should be able to:**

1. Implement a review of the medical history and assess the psychological profile of a patient prior to the administration of local anesthesia or nitrous oxide–oxygen sedation.
2. Identify the pharmacologic actions and anatomical considerations for the administration of local anesthetic agents.
3. Differentiate the clinical actions of specific anesthetic agents.
4. Demonstrate the proper assembly of the local anesthetic armamentarium.
5. Demonstrate maxillary/mandibular infiltration and block anesthesia techniques to laboratory competency on a classmate.
6. Define the potential complications and management of emergencies when administering local anesthesia.
7. Describe the protocols for use of topical anesthetics.
8. List indications and contraindications for the use of nitrous oxide/oxygen sedation.
9. Demonstrate knowledge and use of the nitrous oxide/oxygen sedation armamentarium.
10. Demonstrate to laboratory competency, on a classmate, nitrous oxide-oxygen sedation technique.
11. Define the potential complications and management of emergencies when administering nitrous oxide/oxygen analgesia.

**Topical Description**

**MODULE 1** PAIN CONTROL CONCEPTS, ARMAMENTARIUM, FUNDAMENTAL INJECTION TECHNIQUE, INFILTRATION INJECTION TECHNIQUE

**MODULE 2** PATIENT ASSESSMENT, ANATOMY REVIEW and MAXILLARY TECHNIQUE: BUCCAL INJECTIONS

**MODULE 3** Neuroanatomy, Neurophysiology, pharmacology And MAXILLARY TECHNIQUE: PALATAL INJECTIONS

**MODULE 4** local anesthetic agents, VASOCONSTRICTORS, MANDIBULAR INJECTION TECHNIQUES.

**MODULE 5** dosage calculations, Topical Anesthetic AGENTS

**MODULE 6** Nitrous oxide/oxygen analgesia, Supplemental injections

**MODULE 7**  Local Anesthetic COMPLICATIONS and MANAGEMENT

**MODULE 8** Managing the fEARFUL pATIENT; tROUBLESHOOTING iNADEQUATE aNESTHESIA

**Notes to Instructors**

None