

**College of San Mateo**  
**Official Course Outline**

1. **COURSE ID:** DENT 749    **TITLE:** Preclinical Dental Science Laboratory  
**Units:** 1.0 units    **Hours/Semester:** 48.0-54.0 Lab hours  
**Method of Grading:** Letter Grade Only  
**Prerequisite:** Acceptance to the Dental Assisting Program

2. **COURSE DESIGNATION:**

**Degree Credit**  
**Transfer credit:** none

3. **COURSE DESCRIPTIONS:**

**Catalog Description:**

Provides the student with a swift introduction to chairside skills, dental units, preparing and dismissing the dental patient, preparing and breaking down the dental treatment room, proper oral evacuation placement, and generalized instrumentation. (Fall only.)

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**

Upon successful completion of this course, a student will meet the following outcomes:

1. Demonstrate the ability to prepare dental treatment room.
2. Identify and describe the proper use of procedure specific dental instrumentation.
3. Demonstrate the proper use of the HVE and Air/Water Syringe including isolation techniques.

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**

Upon successful completion of this course, a student will be able to:

1. Demonstrate the ability to prepare dental treatment room. .
2. Identify and describe the proper use of procedure specific dental instrumentation.
3. Demonstrate the proper use of the HVE and Air /Water Syringe including isolation techniques.

6. **COURSE CONTENT:**

**Lecture Content:**

1. Black's Cavity Classifications
  - A. 6 classifications
  - B. Areas of cavity in tooth enamel
2. Clinical and Periodontal Charting
  - A. Clinical vs. Perio Charting
    - a. Uses
    - b. Indications vs. Contraindications
    - c. Importance of color coding
  - B. Treatment Planning
    - a. Intra and Extra Oral examinations
    - b. Charting documentations
    - c. Radiographs
  - C. Health History
    - a. Dental and Medical
    - b. Importance of a Need

**Lab Content:**

1. Clinical and Periodontal Charting
2. Importance of color coding
3. Treatment Planning
  - A. Intra and Extra Oral examinations
  - B. Charting documentations
  - C. Radiographs
  - D. Health History
    - a. Dental and Medical
    - b. Importance of a Need

4. Dental Treatment Room Preparation
  - a. Importance / relevance
  - b. Wipe vs. Spray-Wipe-Spray
  - c. Seat and Greet patient
  - d. Dismissing the patient
  - e. Placing patient napkin on patient
  - A. Instrumentation
    - a. Types
    - b. General vs. Specialized
    - c. Hand cutting
    - d. Rotary: dental hand pieces
  - B. Moisture Control Techniques
    - a. Use of HVE
    - b. Use of Saliva Ejector
    - c. Use of Air/Water Syringe
    - d. Cotton roll technique
    - e. Dry angle technique
    - f. Rubber dam usage
    - g. Importance / relevance
  - C. Local Anesthetic Syringe
    - a. Proper Set -up
    - b. Parts of the syringe
    - c. Anesthetic carpule
    - d. Sharps container
    - e. Safety techniques
    - f. Proper disassembly of the syringe
    - g. Proper disposal techniques

**7. REPRESENTATIVE METHODS OF INSTRUCTION:**

Typical methods of instruction may include:

- A. Lecture
- B. Observation and Demonstration
- C. Other (Specify): hands on time at the dental chair, demonstrations by instructors, and practice with partners, videos, and overhead clinical experiences with charting.

**8. REPRESENTATIVE ASSIGNMENTS**

Representative assignments in this course may include, but are not limited to the following:

**Reading Assignments:**

Reading assignments from the textbook and workbook

**Other Outside Assignments:**

Clinical competencies on lab skills

**9. REPRESENTATIVE METHODS OF EVALUATION**

Representative methods of evaluation may include:

- A. Class Participation
- B. Class Performance
- C. Lab Activities
- D. Quizzes
- E. lab competencies, worksheet and workbook assignments, practical work, and final practical examination

**10. REPRESENTATIVE TEXT(S):**

Possible textbooks include:

- A. Bird, D and Robinson, D.. *Modern Dental Assisting Textbook and workbook*, 13th ed. Elsevier, 2021

**Origination Date:** November 2021

**Curriculum Committee Approval Date:** December 2021

**Effective Term:** Fall 2022

**Course Originator:** Beth LaRochelle