

**College of San Mateo
Official Course Outline**

1. COURSE ID: DENT 740 **TITLE:** Chairside Assisting I

Units: 3.0 units **Hours/Semester:** 32.0-36.0 Lecture hours; 48.0-54.0 Lab hours; and 64.0-72.0 Homework 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:

This course provides the students with an introduction to chairside dental assisting procedures. This course is designed to meet the requirements of the California State approved course in coronal polish certificates. Intended for full time students accepted into the Dental Assisting Program. (This course is offered in the Fall only.)

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

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

1. List the steps in the restorative dental procedures: Amalgam, Composite, Crown and Bridge.
2. Identify and treat patient medical emergencies in the dental office.
3. Identify the indications and contraindications of performing a coronal polish procedure.
4. Demonstrate the technique utilizing the appropriate materials for performing coronal polishing.

5. SPECIFIC INSTRUCTIONAL OBJECTIVES:

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

1. List the steps in the restorative dental procedures: Amalgam, Composite, Crown and Bridge.
2. Identify and treat patient medical emergencies in the dental office.
3. Identify the indications and contraindications of performing a coronal polish procedure.
4. Demonstrate the technique utilizing the appropriate materials for performing coronal polishing.

6. COURSE CONTENT:

Lecture Content:

1. Four Handed Dentistry
 - A. Team members and dental office
 - B. Abbreviations in dentistry
 - C. Clock concept
 - D. Terminology
 - E. Tooth numbers/surfaces/quadrants
 - F. Instrument exchange
 - G. HVE placement and utilization
 - H. Saliva ejector and air/water syringe
 - I. DA position at the chair
 - J. Role of DA
 - K. Responsibilities
2. Dental Instrumentation
 - A. Rotary vs. Hand instruments
 - B. Dental handpieces and accessories
 - a. Slow speed
 - b. High speed
 - c. Dental burs
 - i. Latch type
 - ii. Friction grip
 - C. General instruments
 - D. Procedure instruments
 - E. Specialized instruments

- F. Tray set -up for a procedure
- G. Cassette system
- H. Tub system
- 3. Dental Procedures
 - A. Amalgam
 - a. History
 - b. Indications
 - c. Popularity
 - d. Expected life time of an amalgam
 - e. Steps in procedure
 - f. Armamentarium
 - B. Composite
 - a. Anterior and posterior restorations
 - b. History
 - c. Indications
 - d. Popularity
 - e. Expected lifetime of a composite
 - f. Steps in procedure
 - g. Armamentarium
 - h. Filled vs. Unfilled resins
 - C. Crown and Bridge
 - a. History
 - b. Indications
 - c. Popularity vs. Necessity
 - d. Expected lifetime of a crown or bridge
 - e. Steps in procedure
 - f. Armamentarium
 - D. Endodontic Procedure
 - a. History
 - b. Indications
 - c. Testing and diagnosis
 - d. Signs and symptoms
 - e. Steps in procedure
 - f. Armamentarium
 - g. Post and core
 - E. Assist Dentist
 - a. Anticipation
 - b. Safety of the patient
 - c. Exchanging of instruments
 - d. Other responsibilities at the chair
 - F. Disinfection and Sterilization
 - a. Infection Control techniques
 - i. Spray-wipe-spray
 - ii. Disinfectant wipes
 - b. OSHA regulations in dentistry
 - i. Personal Protective Equipment (PPE)
 - ii. Immunizations
 - iii. Safety precautions
 - iv. Chart documentation and storage
 - c. Instrument sterilization
 - i. Autoclave
 - ii. Statim
 - iii. Chemiclave
 - iv. Dry heat
 - v. Spore testing
 - vi. Chemical testing
 - d. Prevention of cross-contamination
 - G. Anesthetic
 - a. Aspirating syringe
 - b. Carpule

- c. Needles
- d. Safe and proper set up
- e. Precautions
- f. Disinfection techniques
- g. Epinephrine
- h. General anesthetic
 - i. Uses in dentistry
- i. Oral conscious sedation
 - i. Uses in dentistry
- H. Medical Emergencies
 - a. Importance of health history
 - b. Prevention and anticipation
 - c. Signs and symptoms
 - d. Current CPR certification
 - e. Management of an emergency
- I. Coronal Polishing
 - a. Indications and Contraindications
 - b. Types of stain
 - c. Types of abrasives and floss
 - d. Procedure

Lab Content:

1. Utilize Four Handed Dentistry
 - A. Clock concept
 - B. Instrument exchange
 - C. HVE placement and utilization
 - D. Saliva ejector and air/water syringe
 - E. DA position at the chair
 - F. Responsibilities
2. Identify Dental Instrumentation
 - A. Rotary vs. hand instruments
 - B. Dental handpieces and accessories
 - a) Slow speed
 - b) High speed
 - c) Dental burs
 - i. Latch type
 - ii. Friction grip
 - C. General instruments
 - D. Procedure instruments
 - E. Specialized instruments
 - F. Tray set -up for a procedure
 - G. Cassette system
 - H. Tub system
3. Demonstrate Assisting with Dental Procedures
 - A. Amalgam
 - a) Steps in procedure
 - b) Armamentarium
 - B. Composite
 - a) Anterior and posterior restorations
 - b) Steps in procedure
 - c) Armamentarium
 - C. Crown and Bridge
 - a) Steps in procedure
 - b) Armamentarium
 - D. Endodontic Procedure
 - a) Steps in procedure
 - b) Armamentarium
 - c) Post and core

- E. Assisting Dentist
 - a) Anticipation
 - b) Safety of the patient
 - c) Exchanging of instruments
 - d) Other responsibilities at the chair
 - e) Disinfection and Sterilization
- F. Infection Control Technique
 - a) Spray-wipe-spray
 - b) Disinfectant wipes
- 4. Utilize OSHA Regulations in Dentistry
 - A. Personal Protective Equipment (PPE)
 - a) Safety precautions
 - b) Chart documentation and storage
 - B. Demonstrate Instrument Sterilization
 - a) Autoclave
 - b) Statim
 - c) Chemiclave
 - d) Dry heat
 - e) Spore testing
 - f) Chemical testing
 - g) Prevention of cross-contamination
 - C. Demonstrate setting up an Anesthetic syringe
 - a) Aspirating syringe
 - b) Carpule
 - c) Needles
 - d) Safe and proper set up
 - e) Precautions
 - D. Demonstrate the process of Coronal Polishing
 - a) Types of abrasives and floss
 - b) Fulcrum
 - c) Handpiece grasps
 - d) Positioning
 - e) Sequence
 - f) Armamentarium

7. REPRESENTATIVE METHODS OF INSTRUCTION:

Typical methods of instruction may include:

- A. Lecture
- B. Lab
- C. Discussion
- D. Other (Specify): power point presentations, videos, group discussion, demonstrations in lab.

8. REPRESENTATIVE ASSIGNMENTS

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

Writing Assignments:

Workbook assignments and worksheets are assigned that relate to the topic being discussed.

Reading Assignments:

Students will be assigned chapter readings from the textbook which correlate with the subject being discussed.

9. REPRESENTATIVE METHODS OF EVALUATION

Representative methods of evaluation may include:

- A. Class Participation
- B. Exams/Tests
- C. Homework
- D. Lab Activities
- E. Quizzes
- F. Written examination
- G. Clinical competencies on lab skills, performance on worksheets and workbook assignments, participation

in lecture and lab discussions, weekly review quizzes, and a final examination.

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

Possible textbooks include:

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

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Course Originator: Beth LaRochelle