

D A 51C: ADVANCED DENTAL ASSISTING SKILLS

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2023
Units:	3.5
Hours:	2.5 lecture, 4 laboratory per week (78 total per quarter)
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Student Learning Outcomes

- The student will successfully remove stain and soft deposits from the majority of the tooth surfaces utilizing a selective coronal polishing technique.
- All students will be able to fabricate a bleaching stent, and to demonstrate understanding of the basic concepts of dental bleaching material

Description

Continuation of techniques introduced in D A 51A and 51B to include pulp vitality testing, fluoride administration, intraoral/extraoral exam, polishing removable partial and full dentures, dental implants, and pedodontic procedures. Theory and practice of coronal polishing. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

Course Objectives

The student will be able to:

- Dental Assisting Theory and Practice Competency: dental assisting students must be competent in applying the theory and practice of dental assisting for persons of all ages and abilities
 - Perform, document, and report pulp vitality testing on a patient/partner
 - Provide and document an in-office fluoride treatment on a patient/partner
 - Perform and document an intraoral/extraoral exam on clinical patients
 - Polish a removable partial or full denture using standard performance criteria
 - Describe the types, indications, and contraindications for dental implants
 - State the sequence of implant placement
 - Cite appropriate implant oral hygiene aids and uses
 - State the objectives for coronal polishing of the teeth
 - Identify the various types and etiology of common stains by color and describe them clinically
 - Describe tooth morphology and anatomy of the oral cavity and relationship to plaque stains and polishing techniques
 - Infection Control and Hazardous Waste Management: dental assistants must possess the knowledge and abilities to prevent the transmission of infectious diseases
 - Decide which PPE, decontamination, disinfection, and sterilization techniques are appropriate for the prevention of disease transmission for coronal polishing, extraoral/intraoral exam, pulp vitality testing, fluoride treatments, and polishing of a removable partial or a full denture
 - Describe the infection control procedures that should be performed for coronal polishing, extraoral/intraoral exam, pulp vitality testing, fluoride treatments, and polishing of a removable partial or a full denture
 - Perform appropriate hazardous waste and sharps management for coronal polishing, extraoral/intraoral exam, pulp vitality testing, fluoride treatments, and polishing of a removable partial or a full denture
 - Describe how to avoid cross contamination when performing dental assisting duties
 - Ethical and Legal Principles: dental assisting students must be competent in understanding ethical/legal principles as applied to the dental office
 - Identify and describe the common dental procedures in which the registered dental assistant is directly supporting or directly involved in the procedure
 - State the legal duties of a RDA and DA for coronal polishing, extraoral/intraoral exam, pulp vitality testing, fluoride treatments, and polishing of a removable partial or a full denture
 - Cite the legal and ethical implications of performing duties that are not designated to the licensed RDA in the California State Practice Act
 - Prepare and/or evaluate complete and accurate patient procedure records
 - Demonstrate professional behavior and appearance in clinical and laboratory situations
- Discuss the principles of disclosing materials as to composition, clinical application, and contraindications
 - Define "abrasive" and list the four factors which affect the rate of abrasion and the consequences of misuse of an abrasive agent
 - Name four of the commonly used abrasive agents and describe their composition and use
 - Demonstrate the appropriate technique for use of mouth mirror for indirect vision, illumination, and retraction when coronal polishing
 - List the steps necessary in the care of the prophy angle and slow-speed handpiece
 - List the armamentarium necessary for the completion of the coronal polishing procedure
 - Disclose a clinic patient in preparation for oral hygiene instructions or coronal polishing
 - Deliver appropriate oral hygiene instruction on a clinic patient based on the patient's age, amount and location of plaque, along with other periodontal disease indicators
 - Acquire at least five patient experiences for coronal polishing using standard performance criteria
 - Fabricate, deliver, and give instructions for a bleaching splint
 - Fabricate a custom tray on a edentulous or partially edentulous model

- vi. Demonstrate teamwork with assigned student-partner in classroom, laboratory, and clinical situations

Course Content

- a. Dental Assisting Theory and Practice Competency
 - i. Pulp testing
 - 1. Pulp vitality testing
 - a. Indications for pulp vitality testing
 - b. Types of pulp vitality testing
 - i. Cold test: ice, ethyl chloride
 - ii. Hot test
 - iii. Percussion
 - iv. Palpation
 - v. Electric or electronic pulp testing: armamentarium, State Practice Act, patient instructions, procedure, documentation of findings in treatment record, infection control (including PPE, instrument decontamination, disinfection, and instrument sterilization)
 - vi. Radiographs
 - c. Diagnostic findings from pulp testing
 - i. Normal
 - ii. Pulpitis: reversible, irreversible
 - iii. Periradicular abscess
 - iv. Nectrotic tooth
 - ii. Fluoride treatment
 - 1. Indications and contraindications
 - 2. State Practice Act
 - 3. Armamentarium
 - a. Fluoride gel/foam versus varnish
 - 4. Patient instructions
 - 5. Procedure
 - 6. Documentation in treatment record
 - 7. Infection control (including PPE, instrument decontamination, disinfection, and instrument sterilization)
 - iii. Extraoral/intraoral exam
 - 1. Purpose
 - 2. State Practice Act
 - 3. Armamentarium
 - 4. Patient instructions
 - 5. Procedure
 - 6. Documentation of findings in treatment record
 - a. Size
 - b. Shape
 - c. Location
 - d. Duration
 - e. Color
 - f. Infection control (including PPE, instrument decontamination, disinfection, and instrument sterilization)
 - iv. Polishing of removable partials or full upper dentures
 - 1. Indications and contraindications
 - 2. State Practice Act
 - 3. Armamentarium
 - 4. Patient instructions
 - 5. Procedure
 - 6. Infection control in the dental laboratory
 - 7. Documentation in treatment record
- v. Dental implants
 - 1. Types
 - 2. Indications and contraindications
- vi. Sequence of placement and timeline
 - 1. Cost
- vii. Oral hygiene instructions
 - 1. Brushing and flossing
 - 2. Alternative or supplemental plaque removal aids
- viii. Coronal polishing
 - 1. Definition
 - 2. State Practice Act
 - 3. Purpose
 - 4. Medical history significance
 - 5. Prophylactic antibiotic premedication
- ix. Stains
 - 1. Identifying types and etiology of stains
- x. Tooth morphology in relation to stains and plaque accumulation
 - 1. Tooth concavities
 - 2. Common areas of stain and plaque accumulation
- xi. Disclosing materials
 - 1. Types and compositions
 - 2. Disclosing methods
 - 3. Indications and contraindications
 - 4. Armamentarium
 - 5. Patient instructions
 - 6. Procedure
- xii. Abrasive agents
 - 1. Factors which affect the rate of abrasion
 - 2. Consequences of misuse
- xiii. Types
 - 1. Consequences of misuse
 - 2. Factors involved in misuse
- xiv. Mouth mirror usage
 - 1. Illumination
 - 2. Retraction
 - 3. Indirect vision
- xv. Care of prophylaxis angle and handpiece
 - 1. Cleaning and lubrication
 - 2. Assembly
 - 3. Use
 - 4. Coronal polishing technique
- xvi. Armamentarium
 - 1. Instruments
 - 2. Equipment
 - 3. Materials
- xvii. Patient disclosing
 - 1. Evaluation criteria
- xviii. Oral hygiene instruction
 - 1. Toothbrushing and flossing
 - 2. Supplemental aids
- xix. Patient experience

1. Fulcrum options
 2. Patient/operator positioning
 3. Disclosing
 4. Use of abrasive agent
 5. Selective polishing
 6. Interproximal polishing
 7. Polishing of facial, lingual, and occlusal surfaces
 8. Documentation in the treatment plan
- xx. Bleaching splint
1. Fabrication
 2. Delivery and patient instructions
- xxi. Custom tray
1. Fabrication
- b. Infection Control and Hazardous Waste Management
- i. Prevention of disease transmission
 1. Guidelines by regulatory and advisory agencies
 - ii. Infection control (including PPE, instrument decontamination, disinfection, instrument sterilization)
 1. Instrument processing
 2. Set-up of unit
 - iii. Hazardous waste and sharps management
 1. regulatory vs. non-regulatory waste
 - iv. Prevention of cross contamination
 1. Overgloves, cotton pliers
 2. Barriers
- c. Ethical and Legal Principles
- i. Duties
 1. Dental practice act
 2. Coronal polish versus dental prophylaxis
 3. Ethical obligations
 4. Informed consent

Lab Content

- a. Pulp testing
- b. Polishing partials and dentures
- c. Fluoride treatment
- d. Intraoral and extraoral exam
- e. Coronal polishing

Special Facilities and/or Equipment

1. Dental operatory demonstration and practice units, laboratory facilities with individual student work areas.
2. Clinical supplies to support demonstration and student practices activities.
3. When taught via Foothill Global Access, on-going access to computer with email software and hardware; email address.

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

- Exams (multiple choice, short answer, spelling, and instrument identification)
- Laboratory assignments
- Clinical assignments

Written assignments

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

- Lecture
- Laboratory
- Demonstration

Representative Text(s) and Other Materials

Bird, D.L., and D.S. Robinson. Modern Dental Assisting, 13th ed. (ISBN: 978-1-4377-2734-1). 2020.

Leicht, J.. Coronal Polishing Lecture Manual. 2021.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

- a. Reading Coronal Polishing chapter from textbook
- b. Reading and reviewing course lecture/lab manual
- c. Documentation in the treatment record of vital signs, pulp vitality testing, medical history review, findings for intraoral and extraoral exams
- d. Writing reflection and competency papers

Discipline(s)

Dental Technology