

D A 51B: INTERMEDIATE CLINICAL DENTAL ASSISTING

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2021
Units:	3
Hours:	2 lecture, 3 laboratory per week (60 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 be able to identify and describe the use for dental instruments utilized in a orthodontic specialty practice on a final instrument examination given at the end of the quarter.
- The student will be able to identify common orthodontic fixed and removable appliances

Description

Periodontal and oral surgery procedures, equipment, and instruments. Registered Dental Assistant orthodontic function. Types of dental emergencies. Preclinical activities for dental and medical emergencies. 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:

A. Dental Assisting Theory and Practice Competency

- state periodontal conditions that are treated in a periodontic specialty office.
- identify instruments and equipment utilized for periodontal procedures or surgeries.
- describe the role of the dental assistant and procedures performed in a periodontal specialty office.
- mix, place, remove and give post-surgical instructions for periodontal dressing.
- state oral conditions that are treated in oral surgery specialty office.
- identify instruments and equipment utilized for oral surgery procedures or surgeries.
- describe the role of the dental assistant and procedures performed in a oral surgery specialty office.
- explain suture removal process to patient and remove non-absorbable sutures.
- describe the principles of tooth movement.
- identify from images, study models or drawings types of malocclusion.
- cite and perform the assessment procedures in preparation for the orthodontic consultation.
- measure and present intraoral measurements on a study model.
- identify equipment, materials and instruments utilized in an orthodontic practice.
- place on and remove orthodontic separators.

- size orthodontic bands for cementation.
- place and remove orthodontic archwires.
- ligate and remove orthodontic archwires with elastic and metal ligature ties.
- evaluate the extent of excess cement after band cementation from coronal surfaces of teeth and remove excess cement from the coronal surfaces utilizing appropriate hand instruments.
- select appropriate instruments to check for loose bands.
- identify fixed or removable orthodontic appliances and their uses.
- describe the nature and sequence of orthodontic appointment.
- state orthodontic patient instructions, including oral hygiene instructions.
- describe and capture extraoral and intraoral photographs with a digital camera for case documentation.
- manage or assist in the management of dental and medical emergencies.

B. Infection Control and Hazardous Waste Management

- decide which PPE, decontamination, disinfection and sterilization techniques are appropriate for the prevention of disease transmission in the periodontic, oral surgery and orthodontic office environment.
- describe the infection control procedures that should be performed for intra/extraoral patient photographs.
- perform appropriate hazardous waste and sharps management for oral surgery, periodontal surgery or orthodontic procedures.
- describe how to avoid cross contamination when performing dental assisting duties.

C. Ethical and Legal Principles

- state the legal duties of a RDA and DA for periodontic, oral surgery, orthodontic, sealant.
- prepare and/or evaluate complete and accurate patient procedure records.
- demonstrate professional behavior and appearance in clinical and laboratory situations.
- demonstrate teamwork with assigned student-partner in classroom, laboratory and clinical situations.

Course Content

A. Dental Assisting Theory and Practice

- Periodontal conditions
 - Periodontal diseases
 - AAP type
 - Periodontal abscess
 - Pericoronitis
 - Acute necrotizing ulcerative gingivitis
 - Hyperplasia
- Instruments and equipment
 - Explorers
 - Probe
 - Scalers
 - Sickle scalers
 - Hoe scalers
 - File scalers
 - Curettes
 - Universal curettes
 - Gracey curettes
 - Surgical knives
 - Kirkland knives
 - Orban knives
 - Goldman-Fox knives
 - Pocket marker
 - Bone file

- h. Ultrasonic scaler
- i. Mouth props and tissue retractors
- j. Surgical suction
- k. Suture material, needle and scissors
- l. Hemostat and needle holder
- m. Scalpel and scalpel handle
- 3. Assistant's role and periodontal procedures
 - a. Dental Practice Act
 - 1) DA and RDA duties
 - b. Non-surgical treatment
 - 1) Dental prophylaxis
 - 2) Scaling and root planning
 - 3) Gingival curettage
 - 4) Locally delivered antibiotics
 - c. Surgical treatment
 - 1) Osteoplasty and ostectomy
 - 2) Gingivectomy and gingivoplasty
 - 3) Periodontal flap surgery
 - 4) Laser surgery
 - 4. Post-surgical dressing and patient instructions
 - a. Control of bleeding
 - b. Control of swelling
 - c. Periodontal surgical dressing
 - 1) Armamentarium
 - 2) Mixing
 - 3) Placement
 - 4) Removal
 - 5) Patient instructions
 - 5. Oral surgery conditions
 - a. Impacted teeth
 - b. Oral cancer
 - c. Teeth requiring extractions
 - 6. Instruments and equipment
 - a. Elevators
 - 1) Straight elevators
 - 2) Root tip picks
 - b. Forceps
 - 1) Universal
 - 2) Maxillary
 - 3) Mandibular
 - c. Surgical curette
 - d. Rongeur
 - e. Bone file
 - f. Chisels and mallet
 - g. Surgical burs
 - 7. Assistant's role and oral surgery procedures
 - a. Patient sedation
 - 1) Monitoring devices
 - a) Capnography
 - b) Pulse oximeter
 - c) EKG
 - b. Excisional and incisional biopsy of impacted teeth
 - c. Removal of impacted teeth
 - d. Single removal or multiple removal of teeth
 - e. Treatment of alveolitis (dry socket)
 - f. Post-surgical patient instructions
 - 1) Control of bleeding
 - 2) Control of swelling
 - 8. Suture removal
 - a. Types of sutures
 - 1) Absorbable
 - 2) Non-absorbable
- b. Armamentarium
- c. Placement and removal procedure
- d. Patient instructions
- 9. Principles of tooth movement
 - a. Periodontal ligament and tooth movement
 - b. Passive and active movement with appliances
 - 1) Fixed appliances
 - 2) Coiled springs
 - 3) Elastics
- 10. Malocclusion
 - a. Classes of malocclusion
 - 1) Class I
 - 2) Class II
 - 3) Class III
 - b. Crowding
 - c. Overjet
 - d. Overbite
 - e. Open bite
 - f. Cross bite
 - g. End-to-end and edge-to-edge bite
- 11. Assessment procedures
 - a. Radiographs
 - b. Study models
 - c. Cephalometric radiographs
 - d. Intraoral and extraoral photographs
- 12. Intraoral measurements
 - a. Armamentarium
 - b. Tooth size discrepancy
 - c. Arch width and circumference
 - d. Overjet, overbite, crossbite, closed and open bite
- 13. Orthodontic equipment, materials and instruments
 - a. Orthodontic scaler
 - b. Ligature director
 - c. Band plugger
 - d. Bite stick
 - e. Bracket placement tweezers
 - f. Boone and Boley gauge
 - g. Pliers
 - 1) Bird-beak pliers
 - 2) Contouring pliers
 - 3) Weingart utility pliers
 - 4) Three-prong pliers
 - 5) Pin-and-ligature cutter
 - 6) Howe pliers
 - 7) Wire bending pliers
 - 8) Ligature-tying pliers
 - 9) Distal end cutters
 - 10) Elastic separating pliers
 - 11) Band removing pliers
- h. Appliances
 - 1) Fixed appliances
 - a) Palatal expander
 - b) Bands: buccal tube, headgear tube, hooks, buttons
 - c) Traditional and self-ligating brackets
 - d) Archwire: stainless steel, Nitinol, copper Nitinol, beta titanium, Optiflex
 - e) Jasper jumper/Herbst appliance
 - f) Space maintainer
- 14. Place and remove of orthodontic separators
 - a. Types
 - 1) Elastic
 - 2) Brass wire
 - 3) Spring

- b. Armamentarium
- c. Procedures
- d. Patient instructions
- 15. Sizing orthodontic bands
 - a. Types
 - b. Armamentarium
 - c. Procedure
- 16. Placement and removal of orthodontic archwires
 - a. Types
 - b. Armamentarium
 - c. Procedures
 - d. Patient instructions
- 17. Ligate and remove elastic and metal ligature ties
 - a. Types
 - b. Armamentarium
 - c. Procedures
 - d. Patient instructions
- 18. Cementation and removal of orthodontic cement from bands
 - a. Types of cements
 - 1) mixing cements
 - b. Armamentarium
 - c. Procedures
- 19. Checking for loose bands
 - a. Armamentarium
 - b. Procedures
- 20. Fixed and removable orthodontic appliances
 - a. Retainers
 - 1) Hawley retainer
 - 2) Lingual retainer
 - 3) Spring retainer
 - b. Removable appliances
 - 1) Headgear
 - 2) Orthodontic positioner
 - c. Functional appliances/activator
 - 1) Bionator
 - 2) Frankel
 - 3) Palatal expanders
 - 4) Lower lingual archwires
 - d. Invisalign
- 21. Nature and sequence of orthodontic appointments
 - a. Phase 1
 - b. Phase 2
 - c. Full treatment
 - d. Partial treatment
- 22. Patient instructions for orthodontic appliances
 - a. After separator placement
 - b. After bracket/band and archwire placement
 - c. Oral hygiene instructions with fixed and removable appliances
 - d. Care of removable appliances
 - e. After removal of fixed appliances
- 23. Extraoral and intraoral photography
 - a. Extraoral photography
 - 1) Types
 - b. Intraoral photography
 - 1) Types
 - c. Armamentarium
- 24. Dental and medical emergencies
 - a. Dental emergencies
 - 1) Periodontal abscess
 - a) Signs and symptoms
 - b) Responsibilities of the dental assistant
 - 2) Endodontic abscess
 - a) Signs and symptoms
 - b) Responsibilities of the dental assistant
 - 3) Alveolar osteitis
 - a) Signs and symptoms
 - b) Responsibilities of the dental assistant
 - 4) Avulsed tooth
 - a) Signs and symptoms
 - b) Responsibilities of the dental assistant
 - 5) Fractured tooth syndrome
 - a) Signs and symptoms
 - b) Responsibilities of the dental assistant
 - 6) Cut or bitten tongue, lip or cheek
 - a) Signs and symptoms
 - b) Instructions for the patient
 - 7) Broken orthodontic fixed appliances or wires
 - a) Signs and symptoms
 - b) Instructions for the patient
 - 8) Traumatic inclusion
 - a) Signs and symptoms
 - b) Responsibilities of the dental assistant
 - 9) Extrusion and lateral luxation injures
 - a) Signs and symptoms
 - b) Responsibilities of the dental assistant
 - 10) Locked TMJ
 - a) Signs and symptoms
 - b) Instructions for the patient
 - b. Medical emergencies
 - 1) Dental staff responsibilities
 - 2) Assist or manage syncope
 - 3) Assist or manage hyperventilation
 - 4) Assist in management of an asthma attack
 - 5) Assist in management of an allergic reaction
 - 6) Assist in management of an epileptic seizure
 - 7) Assist in management of a hypoglycemia event
- B. Infection Control and Hazardous Waste Management
 - 1. Infection control for periodontic, oral surgery and orthodontic offices
 - a. PPE
 - b. Disinfection of equipment and environmental surfaces
 - c. Instrument decontamination and sterilization
 - 2. Infection control for intra/extraoral photography
 - a. PPE
 - b. Disinfection of equipment and environmental surfaces
 - c. Instrument decontamination and sterilization
 - 3. Hazardous waste and sharps management
 - a. Surgical sharps
 - b. Orthodontic sharps
 - c. Regulated and unregulated waste
 - 4. Avoiding cross contamination
 - a. Overgloves
 - b. Unit dose packaging
- C. Ethical and Legal Principles
 - 1. RDA duties
 - a. Dental Practice Act
 - b. Level of supervision
 - 2. Documentation in the treatment record
 - a. Accurate documentation
 - b. Risk management
 - c. Informed consent
 - 3. Professionalism
 - a. Appearance and demeanor

- b. Patient centered treatment
- c. Ethical obligations
- 4. Teamwork
 - a. Interaction with dentist and staff
 - b. Accept socioeconomic, ethnic, and cultural diversity

Lab Content

- A. Instrument identification
- B. Equipment identification
- C. Remove sutures
- D. Place and remove periodontal dressing
- E. Place bonded orthodontic brackets
- F. Size and cement orthodontic bands
- G. Place and remove orthodontic separators
- H. Ligate orthodontic archwire
- I. Remove orthodontic archwire and fixed appliances
- J. Remove excess orthodontic cement
- K. Checking for loose orthodontic bands
- L. Intraoral and extraoral photography of the oral cavity
- M. Identify fixed or removable orthodontic appliances
- N. Perform intraoral measurements for orthodontic treatment planning
- O. Assemble armamentarium and assist for alveolar osteitis

Special Facilities and/or Equipment

- A. Dental operatory demonstration and practice units, laboratory facilities with individual student work areas.
- B. Laboratory and clinical supplies to support demonstration and student practices activities.

Method(s) of Evaluation

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

- Exams
- Lab assignments
- Preclinical assignments
- Clinical assignments
- Written assignments

Method(s) of Instruction

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

- Lecture
- Cooperative learning exercises
- Oral presentations
- Laboratory
- Preclinical
- Clinical demonstration

Representative Text(s) and Other Materials

Bird, D.L., and D.S. Robinson. Modern Dental Assisting, 12th ed.. 2018.

Bird, D.L., and D.S. Robinson. Workbook to Modern Dental Assisting, 12th ed.. 2018.

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

- A. Assigned chapter readings from the textbook
- B. Documentation in the treatment record

Discipline(s)

Dental Technology