

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

_____ Transfer Course X A.A. Degree applicable course
 (check all that apply)

COURSE NUMBER AND TITLE: DA 75 – Dental Operative Procedures

UNIT VALUE: 5

MINIMUM NUMBER OF SEMESTER HOURS: 144

BASIC SKILLS REQUIREMENTS: Appropriate language and writing skills

ENTRANCE REQUIREMENTS

PREREQUISITE: Admission to the Dental Assisting Program

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

Applications of and introduction to preclinical dental assisting in operative and specialty dental procedures, care of equipment, instrumentation, sterilization techniques, disease transmission, charting, utilization of dental materials, dental office emergencies, and functions delegated to the California Registered Dental Assistant. *Graded only.*

SPECIFIC COURSE OBJECTIVES:

*Requires laboratory proficiency

Successful students will apply knowledge obtained from this course as a prerequisite for dental assisting practical experiences and other more advanced dental courses. As a member of the dental health team, the student will provide effective patient care while functioning within the scope of a dental assistant.

- I. Patient Management: Receive, Seat, Prepare, and Dismiss
 - A. Explain methods used to familiarize themselves with the patient.
 - B. Analyze and provide a course of action for common patient problems.
 - C. Explain the verbal and non-verbal clues commonly used for anxious patients and describe techniques for allaying patient anxiety.
 - D. Explain the “tell-show-do” approach and state when it is to be used.
 - E. Explain an appropriate patient greeting technique.
 - F. Explain the steps in patient dismissal.
 - G. Explain how the assistant should manage a patient’s case history.
 - H. Explain patient confidentiality procedure in the dental office.
 - I. Define all related terminology.
- II. The Operatory and Equipment
 - A. Explain the equipment in the dental operatory and its function.

- B. Anticipate how to prepare dental equipment prior to seating a patient.
- C. Explain the proper way to maintain and clean the operator and equipment on a daily, weekly and monthly basis.
- D. Define all related terminology.

III. Assistant and Operator Position

- A. Explain the criteria for acceptable operator's position while giving patient treatment.
- B. Explain the criteria for acceptable assistant's position while assisting the operator.
- C. Explain general characteristics of assistant's and operator's dental chairs.
- D. Demonstrate the term "clock position".
- E. Explain the correct position for a dental light.
- F. Define all related terminology.

IV. Dental Handpieces

- A. Explain the procedure for cleaning, sterilization and lubrication of dental handpieces and their attachments.
- B. Deduce valid conclusions the reasoning for using air and or water while operating with ultra speed handpieces.
- C. Explain torque and the relationship between it and ultra speed handpieces.
- D. Identify dental burs and describe for what procedure it is used.
- E. Identify the types of bur shafts and the handpieces or attachment used with each.
- F. Identify mandrels, polishing wheels, and all other low-speed burs.
- G. Define all related terminology.

V. Instrument Classification: Identify instruments used in restorative dentistry, including fixed, pediatric dentistry, emergency treatment, oral surgery, periodontics, endodontics, and prophylactic and patient examination.

- A. Prepare armamentarium for the instruments identified.
- B. Explain the rationale for each tray set-up.
- C. Explain different methods for coding instruments.
- D. Identify instruments used in placing a rubber dam.
- E. Analyze the appropriate time to open sterilization bags or cassettes for each procedure.
- F. Define all related terminology.

VI. Instrument Armamentarium: Pass and Receive

- A. Explain the boundaries of the transfer zones of instruments.
- B. Explain the exchange zone for a wet field and dry field.
- C. Explain any precautions, positions of equipment, body mechanics of operator and grasp used with the equipment and instruments.
- D. Demonstrate the techniques of oral evacuation on operative dentistry and oral surgery.
- E. Identify the types of oral evacuator tips and their uses.
- F. Demonstrate the use of the air-water syringe during dental procedures.
- G. Define all related terminology.

VII. Operative Dentistry

- A. Explain cavity classifications.
- B. Explain procedures and function of operative dentistry.
- C. Identify and construct tray set-ups for operative dentistry.
- D. Define all related terminology.

VIII. Examination and Recording

- A. Analyze the rationale for including radiographs at the initial dental exam.
- B. Explain the four intra-oral areas to be examined during a dental examination.
- C. Competently perform an intra-oral and extra-oral examination on a fellow student and chart all findings.
- D. Compare and contrast abnormal and normal findings on hard and soft tissues.
- E. Analyze reasoning for initial study models for an examination.

F. Explain pulp testing and analyze when it is appropriate.

G. Define all related terminology.

X. Cements, Bases and Liners

A. Explain the criteria for managing the patient and maintaining the operation field when applying bases, liners and cements.

B. Explain the criteria for accurately placed cements, bases, varnishes and liners.

C. Demonstrate laboratory proficiency:

1. Application of bases, liners, varnishes and cements on typodont teeth.

2. Placement of temporary sedative restorations using a matrix band and wedge.

XI. Sterilization Methods and Techniques

A. Compare and contrast sterilization and disinfection.

B. Discuss the role and standards by government regulatory agencies such as OSHA, health department, Board of Dental examiners, American Dental Association, and Centers for Disease Control and Prevention.

C. Compare and contrast different methods of decontaminating environmental surfaces, laboratory supplies, dental materials, and dental instruments.

D. Explain proper disposal of waste materials.

E. Explain steps to monitoring different types of sterilizers.

F. Explain OSHA/ADA barrier techniques.

G. Explain proper disposal of sharps.

H. Demonstrate proficiency in disinfection and sterilization methods.

I. Demonstrate asepsis techniques.

J. Demonstrate proper preparation of instruments for sterilization.

K. Apply principals of universal precaution in patient-care situations, make appropriate judgments regarding personal protective equipment and procedures necessary to reduce exposure to bloodborne pathogens.

L. Explain and identify proper personal protective equipment and when it is to be used.

M. Define all related terminology.

XII. Endodontic Procedures

A. Explain the indications and contraindications of endodontic therapy.

B. Explain the aseptic conditions for endodontic therapy.

C. Explain the steps for diagnosis and examination of endodontic procedure.

D. Compare and contrast endodontic therapy, pulpotomy and pulpectomy procedures.

E. Explain the reasons for discoloration of a tooth after having endodontic therapy.

F. Identify armamentarium for an endodontic procedure.

G. Explain the assistant's role in endodontic procedures.

H. Demonstrate proficiency in using materials associated with endodontic procedures.

I. Define all related terminology.

XIII. Oral Surgery and Removing Sutures

A. Explain the technique used in oral exfoliative cytology.

B. Identify oral surgery instruments.

C. Select appropriate armamentarium for oral surgery procedures.

D. Explain the different procedures performed by an oral surgeon and explain when oral surgery is indicated and contraindicated.

E. Explain what a "dry socket" is and the treatment indicated for this.

F. Explain home care instructions for oral surgery patients.

G. Anticipate and explain possible problems of an oral surgery patient.

H. Demonstrate safe suture removal on laboratory manikins.

I. Describe sterilization techniques of an oral surgery procedure.

J. Identify armamentarium for a suture removal procedure.

XV. Pediatric Dentistry

- A. Explain and define all related terminology in pediatric dentistry.
- B. Compare and contrast charting techniques for pediatric patients as compared to adult dental patients.
- C. Select and size appropriate stainless steel crowns.
- D. Explain and identify different types of space maintainers and compare and contrast the differences.
- E. Apply principles of problem solving concerning uncooperative pediatric patients.
- F. Explain the process of identifying possible child abuse, and explain the steps of documentation of and reporting of these facts.

XVI. Prosthodontics

- A. Identify instruments used in fixed prosthodontics.
- B. Identify procedures used in removable prosthodontics.
- C. Explain the process involved in crown and bridge procedures.
- D. Explain the steps used in making dentures and partial dentures.
- E. Explain the different ways to fabricate temporary provisional restorations.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Patient Management
 - A. Communications
 - B. The anxious patient
 - C. Seating and dismissing
- II. Operatory and Equipment Maintenance
 - A. Dental Unit
 - B. Headpieces
 - C. Cleaning and Sterilization
 - D. Preventative Maintenance
 - E. Safety procedures
- III. Assistant and Operator Positions
 - A. Operator's position
 - B. Assistant's position
 - C. "Clock position"
 - D. Equipment position
 - 1. Trays
 - 2. Surgical lamps
 - 3. Units
- IV. Sterilization
 - A. Universal precautions
 - B. Sterilization techniques
 - C. Operator/assistant barriers
 - D. Hazardous waste
 - E. MSDS compliance
 - F. OSHA compliance
 - G. Safety procedures
 - H. Biohazardous waste
- V. Instruments
 - A. Operative instruments
 - B. Rotary instruments
 - C. Color coding
 - D. Tray set-ups
 - E. Sharpening

- F. Disinfecting/sterilization methods
- VI. Patient Records
 - A. Oral examination
 - B. Charting technique
- VII. Cements, Bases and Liners
 - A. Placement / application
 - B. Removal
- VII. Dental Office Emergencies
 - A. Medical emergencies
 - B. Dental emergencies
- X. Vitals
 - A. Blood pressure – pulse respiration
 - B. Methods of obtaining vitals
 - C. Record keeping
- XI. Dental Specialities
 - A. Periodontics
 - B. Endodontics
 - C. Orthodontics
 - D. Oral maxiofacial surgery
 - E. Prosthodontics
 - F. Pediatric dentistry
 - G. Oral pathology

REQUIRED READING:

Torres, H. and A. Ehrlich. Modern Dental Assisting. 7th edition. Philadelphia: W.B. Saunders, 2003.

Required handouts to assist in daily lectures.

SUGGESTED READING:

Craig, Robert, John Powers, and John Wataha. Dental Materials; Properties & Manipulation. 7th Ed. St. Louis: C. V. Mosby, 2000.

REQUIRED WRITING:

1. Students will select an appropriate topic related to this course and prepare a written research paper 3 to 5 pages in length.
2. Laboratory proficiency (75% to pass) evaluations must be maintained by each student. Each student will evaluate their own evaluations prior to faculty evaluations.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

1. Daily reading assignments.
2. Research topic related to this course (student is expected to spend approximately 6 hours for each topic in order to complete research and word process 3 to 5 page research paper).

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

DISTANCE LEARNING:

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply:

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students)

1. The student must pass laboratory evaluations at 75% competency or a substandard grade for the course will be assigned.
2. There are three unit examinations. In addition to the unit examinations there is a comprehensive final examination.

Grading policy is in compliance with college standards described in the Palomar College catalog and the faculty manual.

- 100-90% = A
- 89-80% = B
- 79-70% = C
- 69-60% = D
- 59- 0% = F

Each student must complete the laboratory requirements with 75% proficiency PRIOR to taking the written and (clinical) practical finals.

Research Paper	10%
Examinations	45%
Laboratory Evaluations	25% (must have 75% proficiency)
Final Examination	<u>20%</u>
	100%

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes No Number of times course may be taken for credit: 1

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

CONTACT PERSON: Denise Rudy, Ext. 2573

SIGNATURES ON FILE: