

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 – 71 Dental Radiography II

UNIT VALUE: 1

MINIMUM NUMBER OF SEMESTER HOURS: 48

BASIC SKILLS REQUIREMENTS: Appropriate language skills

ENTRANCE REQUIREMENTS

PREREQUISITE: DA 50; DA 70; proof of Hepatitis B Immunization; and EME 55 or Current BLS for Healthcare Providers Certificate.

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

Advanced experience regarding film placement, cone angulation, exposing and developing radiographs, mounting and evaluating films to further enhance the student's patient management skills.

SPECIFIC COURSE OBJECTIVES:

The successful student will:

- A. UNIT I - Patient Management
 - 1. Discuss and demonstrate patient education in reference to dental radiology.
 - 2. Employ several different methods to aid in patient comfort, both emotionally and physically during the x-ray appointment.
 - 3. Establish rapport with the patient, utilizing both verbal and nonverbal communication, recognizing that each patient brings to the x-ray appointment different apprehensions and physical limitations due to past experiences and oral anatomy or physical handicaps.
 - 4. Discuss the patient's level of responsibility to the dental practice.
 - 5. Contrast holistic health care to delivery system to the traditional medical model.
- B. UNIT II – Lab Practice in the FMX Survey
 - 1. Expose, process and interpret a minimum of (4) four adult diagnostic FMX surveys meeting a minimum competency of 75%.
 - 2. Identify and discuss with the instructor, all errors in technique and indicate the appropriate correction necessary.
 - 3. Recognize, indicate in writing on the FMX evaluation sheet, all abnormal oral conditions

- present on the survey.
4. Expose a FMX full mouth series of radiographs on a cooperative patient within (20) twenty minutes.
- C. UNIT III - Advanced Exercises in Radiographic Interpretation
1. Recognize and interpret abnormal conditions when viewing x-rays.
 2. Recognize incipient caries and bone lesions.
 3. Recognize dental appliances, prosthesis and foreign objects when presented on radiographs.
- D. UNIT IV - Mixed Surveys
1. Expose, process and interpret a minimum of (2) two pedodontic surveys meeting a minimum competency.
 2. Discuss with the instructor, all errors in technique and indicate the appropriate correction necessary.
- E. UNIT V - Primary Surveys
1. Expose, process and interpret a minimum of (1) one edentulous survey meeting a minimum competency level of 75%.
 2. Discuss with the instructor, all errors in technique and indicate the appropriate correction necessary.
 3. Recognize and indicate in writing on the FMX evaluation sheet, all abnormal oral conditions present on the survey.
- F. UNIT VI - Special Techniques
1. Demonstrate the principles of the paralleling technique.
 2. Correctly place the films in the Extension Cone Paralleling (XCP) instruments.
 3. Identify the five (5) rules of shadow casting as they apply to the XCP technique.
 4. Properly position the periapical film using the instrument for the specific area to be exposed.
 5. Align the cone at the correct horizontal and vertical angulations.
 6. Set the MA, KVP, and time for the XCP technique and the area being exposed.
 7. Expose XCP full mouth series as assigned.
 8. Process the surveys correctly.
 9. Demonstrate the Rule of Isometry.
 10. Identify the principles of the bisecting angle technique.
 11. Correctly place films in the bisecting angle instrument (BAI).
 12. Identify the five (5) rules of shadow casting as they apply to the bisecting angle technique.
 13. Properly position the periapical film using the instrument for the specific area to be exposed.
 14. Set the MA, KVP, and time for the BAI technique and the area being exposed.
 16. Process the surveys correctly.
 17. Describe the extraoral landmarks used for each specific film when exposing radiographs.
 18. Align the cone at the correct horizontal angulation for periapical exposures.
 19. List the vertical angulation for each exposure.
 20. Demonstrate correct placement of the film when exposing a bitewing series.
- G. UNIT VII: ANATOMICAL LANDMARKS, MOUNTING AND INTERPRETATION
1. Differentiate between preliminary interpretation and diagnosis.
 2. Identify and locate the number of significant anatomical landmarks of the face and skull.
 3. Identify radiopaque-appearing landmarks of the maxilla and mandible on dental radiographs.
 4. Identify radiolucent-appearing landmarks of the maxilla and mandible on dental radiographs.
 5. Correctly mount dental radiographs utilizing the distinctive both characteristics and bone structure for the various types of surveys.
- H. UNIT VIII - Radiation Safety and Hygiene
1. Demonstrate a professional attitude with patients.
 2. Properly assemble armamentarium necessary for each individual patient.
 3. Demonstrate proper maintenance of the radiation equipment.

4. Employ radiation safety methods.
5. Demonstrate sterilization and asepsis techniques.
6. Correctly obtain patient vitals for medical history records.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

1. Patient Management
2. Practice in the FMX Survey
3. Advanced Exercises in Radiographic Interpretation
4. Mixed Surveys
5. Primary Surveys
6. Special Techniques
7. Anatomical Landmarks, Mounting and Interpretation
8. Radiation Safety and Hygiene

REQUIRED READING:

No text is required. (course requires prerequisite course which includes didactic and laboratory proficiency.)

Instructor-generated handouts

SUGGESTED READING: None

REQUIRED WRITING: None

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.

Students are expected to "locate" their own patients.

- screen health and radiation history
- obtain Rx signed by California Licensed Dentist
- schedule patient
- contact patient prior to scheduled appointment for confirmation
- evaluate surveys prior to instructor evaluation

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. Each student shall expose and process 4 FMX with 75% competency or a substandard grade for the course will be assigned. (Four full sets must be on human dentition.)
2. Grading criteria of FMX on 4 patients: Exposure = 33.3%, Processing = 33.3%, Mounting = 33.3%

Radiographs (four)	=80% (must have 75% competency)
Laboratory Final Exam	=20%
Total	=100%

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

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: