

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: DES 1200

COURSE TITLE: Dental Radiology

PREREQUISITE(S): DES 1010

COREQUISITE(S): DES 1200L

CREDIT HOURS: 3

CONTACT HOURS/WEEK: 3

CONTACT HOUR BREAKDOWN:

Lecture/Discussion: 3

Laboratory:

Other _____:

FACULTY WORKLOAD POINTS: 3

STANDARDIZED CLASS SIZE
ALLOCATION: 24

CATALOG COURSE DESCRIPTION:

The purpose of this course is to introduce the student to the basic principles of oral and maxillofacial radiology. The radiographic examination plays an important role in the diagnostic process in dentistry in conjunction with the clinical examination. The student must possess a sound knowledge of the proper use of dental radiography equipment, radiation safety, exposing, processing and mounting dental radiographs and recognition of a quality film.

SUGGESTED TEXT (S): Haring, J. I. and Jansen L., Dental Radiography Principles and Techniques, W.B. Saunders Co., Philadelphia, latest edition

Kasle, Myron J., An Atlas of Dental Radiographic Anatomy, W.B. Saunders Co., Philadelphia Latest edition

IMPLEMENTATION DATE: Fall Term, 2004 (20051)

REVIEW OR MODIFICATION DATE: Fall Term, 2008 (20091) - Outline Review 2007

COURSE TOPICS	<u>CONTACT HOURS PER TOPIC</u>
I. Introduction	9
A. Nature and Behavior of X-rays	
1. X-ray Unit	
2. The Film	
3. The Dark Room	
B. Hazards of Radiation	
1. Patient	
2. Operator	
II. Bisection of the Angle Technique	3
A. Equilateral Triangle	
B. Film Placement	
C. Exposing the Radiograph	
D. Care of the Radiograph	
E. Care of the X-Ray Unit	
III. Paralleling Technique	3
A. Paralleling Instruments (XCP)	
B. Film Placement	
IV. Recognizing and Solving Problem Situations	3
A. Bisection Technique	
B. Paralleling Technique	
C. Correct Technique	
V. Anatomical Landmarks	3
A. Anatomical Landmark of the Maxillary Arch	
B. Anatomical Landmark of the Mandibular Arch	
VI. Occlusal Technique	3
A. Anterior Occlusal View of the Maxillary Arch	
B. Anterior Occlusal View of the Mandibular Arch	

COURSE TOPICS (CONTINUED)		<u>CONTACT HOURS PER TOPIC</u>
	C. Cross Section Occlusal View of Maxillary Arch D. Cross Section Occlusal View of Mandibular Arch	
VII.	Digital Radiography	3
	A. Direct digital radiography systems B. Charged coupled device C. Phosphor image plate D. Imaging series	
VIII.	Extraoral Radiographs	6
	A. Panoramic radiography B. Anatomic landmarks C. Lateral Jaw Exposure D. Skull radiographs	
IX.	Recognizing the Apprehensive Patient	3
	A. Adult, Child B. Edentulous Patient C. Emergency Patient	
X.	Oral Radiation Therapy	3
	A. Clinical stages B. Side effects C. Dental radiographic series	
XI.	Radiographic Interpretation	6
	A. Developmental abnormalities B. Radiolucent lesions C. Radiopaque lesions D. Trauma to the teeth and jaws	
Total Contact Hours		45

PROGRAM TITLE: Dental Hygiene

COURSE TITLE: Dental Radiology

CIP NUMBER: 0317.010200

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

02.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY - The student will be able to:

- 02.01 Develop basic listening skills.
- 02.02 Develop basic observational skills and related documentation strategies in written and oral form.
- 02.03 Identify characteristics of successful and unsuccessful communication including barriers.
- 02.04 Respond to verbal and non-verbal cues.
- 02.05 Compose written communication using correct spelling, grammar and format.
- 02.06 Use appropriate medical terminology and abbreviations.
- 02.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships.
- 02.08 Recognize the importance of patient/client education regarding health care.
- 02.09 Adapt communication skills to varied levels of understanding and cultural orientation.
- 02.11 Demonstrate ability to give and follow directions.
- 02.12 Distinguish between factual reports and personal opinion.

15.0 IDENTIFY STRUCTURES AND EXPLAIN FUNCTIONS AND PATHOLOGIES OF DENTAL AND GENERAL ANATOMY - The student will be able to:

- 15.01 Identify structures and functions of head and neck anatomy including bones, muscles, sinuses, salivary glands, nerves and blood vessels.
- 15.02 Identify embryonic development of head, oral cavity and teeth.
- 15.03 Identify teeth and their landmarks.
- 15.04 Describe the histological components of the head, oral cavity, and elements of the teeth and supporting structures.
- 15.05 Recognize and describe oral pathological conditions.

19.0 IDENTIFY AND PERFORM DENTAL AND CARPAL RADIOGRAPHIC PROCEDURES - The student will be able to:

- 19.01 Describe history, physics and biological effects of ionizing radiation.
- 19.02 Identify parts of the X-ray machine including accessories.
- 19.06 Identify radiographic anatomical landmarks.
- 19.08 Maintain unexposed film inventory and storage.

21.0 DESCRIBE THE LEGAL AND ETHICAL RESPONSIBILITIES OF THE DENTAL HEALTH CARE WORKER - The student will be able to:

- 22.02 Describe ethical considerations/obligations in the dental team-patient relationship.



NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

Section 1	
COURSE PREFIX AND NUMBER: <u>DES 1200</u>	SEMESTER CREDIT HOURS: <u>3</u>
COURSE TITLE: <u>Dental Radiology</u>	

Section 2
TYPE OF COURSE: (Click on the box to check all that apply)

<input type="checkbox"/> AA Elective	<input checked="" type="checkbox"/> AS Required Professional Course	<input type="checkbox"/> College Prep
<input type="checkbox"/> AS Professional Elective	<input checked="" type="checkbox"/> AAS Required Professional Course	<input type="checkbox"/> Technical Certificate
<input type="checkbox"/> Other _____		
<input type="checkbox"/> General Education: (For General Education courses, you must also complete Section 3 and Section 7)		

Section 3 (If applicable)
INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:

<input type="checkbox"/> Communication	<input type="checkbox"/> Social & Behavioral Sciences	<input type="checkbox"/> Mathematics
<input type="checkbox"/> Natural Sciences	<input type="checkbox"/> Humanities	

Section 4
INTELLECTUAL COMPETENCIES:

<input checked="" type="checkbox"/> Reading	<input checked="" type="checkbox"/> Speaking	<input checked="" type="checkbox"/> Critical Analysis	<input type="checkbox"/> Quantitative Skills	<input checked="" type="checkbox"/> Scientific Method of Inquiry
<input checked="" type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input checked="" type="checkbox"/> Information Literacy	<input checked="" type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively

Section 5	LEARNING OUTCOMES	METHOD OF ASSESSMENT
•	Upon successful completion of this course, students will be able to describe history, physics and biological effects of ionizing radiation	Written Examination
•	Upon successful completion of this course, students will be able to identify parts of the X-ray machine including accessories	Written Examination
•	Upon successful completion of this course, students will be able to identify radiographic anatomical landmarks	Written Examination
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Section 6
 Name of Person Completing This Form: Jeff Smith Date: 4/29/2008