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BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Course Outline Part A

School of Health Sciences Program: Medical Radiography Option:

MRAD 3304 Radiographic Anatomy & Physiology

Hours/Week: Lecture: Lab: Other:	3	Total Ho Total We	eks: 8		Term/Level: Credits:	3 1.5
Prerequisites	si algenedia lucoltz	ale sicona menyelarita	MRAD 3304	is a Prerequisite	for:	13,57
Course No.	Course Name		Course No.	Course Name		
MRAD 2204				Clinical Level 4		

Course Goals

To provide students a thorough knowledge of human skull and radiographic cross-sectional anatomy.

Course Description

During Level 3 of this course the lecture and laboratory material will cover the skull and related structures in detail plus radiographically significant landmarks and lines. Emphasis will be placed on relating the anatomy to the positioning techniques required for good skull radiography. Also, covered during this time will be basic cross-sectional anatomy of the head, thorax and abdomen.

Evaluation

Option 1 Final Examination Midterm	Option 1 Sinal Examination Sold Note: The Pass Mark for this Course			
Quiz TOTAL	<u>. 10%</u> 100%			
Option 2				
Final Examination Midterm Quiz 3	45% 30% 10%			
Assignment TOTAL	$\frac{15\%}{100\%}$		And the second strends	

Course Outcomes and Sub-Outcomes

Upon successful completion of this course the student will be able to:

Competency Profile			
A7, B1	1.	Identify the bony components of the human sky	ull as demonstrated on radiographs.
	2.	Select the appropriate positioning that would d	emonstrate specific skull anatomy.
A4	3.	Locate all the radiographically significant surface	ace landmarks of the human skull.
A4	4.	Describe the radiographically significant locali	zing lines used in skull positioning.
A7, B1	5.	Identify human anatomical structures as shown	on cross-sectional radiographs, including:
		a. skullb. chest and thoraxc. abdomen/spine	

(cont'd.)

pelvis d.

The course outcomes and sub-outcomes align with the following Competency Profiles of the CAMRT

A4.5	Touch the patient at the anatomical landmarks required for positioning for t	he examination.	
A4.6	Position the patient to demonstrate the required anatomical structures.		
A4.8	Direct the central ray to the correct anatomical landmarks.		
A4.9	Align the imaging system with the required anatomical structures.		
A4.10	Collimate to the area of interest only to maximize image quality.		
A7.3	Identify anatomy and patient position on image.		
A7.4	Verify that required structures are demonstrated.		
B1.6	Collimate only to the area of interest to minimize patient dose.		

Course Record		
Developed by:	NORMA SMITH	Date: Acciggy
Revised by:	Instructor Name and Department (signature)	Date: <u>Dec 1996</u>
Approved by:	Associate Dean //Program Head (signature)	Start Date: Daw 1997
WPC #5790 1 12	Monsott	Dec 1998

BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences Program: Medical Radiography Option: Course Outline Part B

MRAD 3304 Radiographic Anatomy and Physiology

Phone:

Effective Date

1999

Instructor(s)

Dori Kaplun

Office No.: Office Hrs.:

.: SW3-4084

432-8743

Text(s) and Equipment

Required:

- Radiographic Skeletal Anatomy, Johnson and Kennedy
- Principles of Anatomy and Physiology, Tortora and Anagnostakos
- MRAD 3304 Radiographic Anatomy Course Manual

Recommended:

(As listed for C.A.M.R.T. exam validation)

- The Anatomy Coloring Book, Kapit and Elson
- Basic Physiology and Anatomy, Chafee and Lytle
- Cross-sectional texts

Course Notes (Policies and Procedures)

Assignment Details

Cross-Sectional Anatomy Presentation

A group of 2 or 3 students will be responsible for presenting an area of cross-sectional anatomy to the class.

The presentation will consist of:

- identification of structures
- relationship of surrounding structures
- discussion of corresponding surface landmarks
- discussion of cross-sectional levels

The presentation will be evaluated and feedback provided by peers and instructor.

MRAD 3304 Radiographic Anatomy January-April 1999

Sets AC	Topic Lecture Lab	page	Sets B/D
Jan 5	Frontal, Parietal and Occipital Bones	6	Jan 19
Jan 7	Skull Landmarks, and Classifications Frontal, Parietal and Occipital Bones	21	Jan 21
Jan 12	Temporal Sphenoid and Ethmoid Bones	8	Jan 26
Jan 14	Temporal Sphenoid and Ethmoid Bones	37	Jan 28
Feb 2	Maxilla, Palatine, Zygoma and Mandible Bones	12	Feb 16
Feb 4	Facial Bones	48	Feb 18
Feb 9	Nasal, Lacrimal, Vomer, Inferior Nasal Concha Bones, Orbits and Combined Areas	13	Feb 23
Feb 11	Facial Bones	48	Feb 25
Mar 2	Abdomen & Pelvis X-section	handout	Mar 23
Mar 4	Midterm	the second	Mar 25
Mar 9	Thorax X-section	handout	Mar 30
Mar 11	X-section	handout	April 1
April 6	Head X-section	handout	Apr 13
Apr 8	X-section	handout	Apr 15

Spring Break March 15-19

Exam Week April 19-23