

BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

COURSE OUTLINE

COURSE NAME Radiographic Anatomy and Physiology

COURSE NUMBER MRAD 3304 DATE 1995

Prepared by Ms. M. Filippelli Taught to Level 3 Year

School Health Sciences School Health Sciences

Program Medical Radiography Program Medical Radiography

Date Prepared December, 1994 Option

Term Level 3 Hrs/Wk 3 Credits 1.5

No. of Weeks 15 Total Hours 22.5

Instructor(s) Ms. Mary Filippelli Office SW3-4084 Local 5750

Office Hours As Posted

PREREQUISITES MRAD 2204

COURSE OBJECTIVES

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

1. Identify the bony components of the human skull as demonstrated on radiographs.
2. Select appropriate skull positioning based on varying skull types.
3. Select the appropriate positioning that would demonstrate specific skull anatomy.
4. Locate all the radiographically significant surface landmarks of the human skull.
5. Describe the radiographically significant localizing lines used in skull positioning.
6. Identify human anatomical structures as shown on cross sectional radiographs including:
 - a. skull
 - b. chest and thorax
 - c. abdomen and spine
 - d. pelvis.

EVALUATION

Final Examination	<u>50</u>	%
Midterm	<u>50</u>	%
Projects		%
Laboratory		%

**NOTE: THE PASS MARK
FOR THIS COURSE IS 60%.**

COURSE OUTLINE
(continued)

REQUIRED TEXT(S) AND EQUIPMENT

Radiographic Skeletal Anatomy
Johnson and Kennedy

Principles of Anatomy and Physiology
Tortora and Anagnostakos

C.A.M.R.T. Curriculum Guide for Radiography Programs.

MRAD 3304 – Radiographic Anatomy and Physiology Course Manual

REFERENCE TEXTS AND RECOMMENDED EQUIPMENT

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

The Anatomy Coloring Book
Kapit and Elson

Basic Physiology and Anatomy
Chafee and Lytle

COURSE SUMMARY

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.

COURSE OUTLINE
(continued)

AC		BD
Jan. 10	Landmarks/Classifications	Jan. 24
10	Frontal/Parietal	24
12	Occipital, Temporal	26
Jan. 17	Sphenoid, Ethmoid	Jan. 31
17	Facial (nasal, zygoma, maxilla)	Feb. 2
19	Positioning – Introduction and Basic Skull	2
Feb. 7	Facial continued (mandible, lacrimal, palatine, orbits)	Feb. 21
7	Positioning: Basic Skull and Sinuses	21
9	MIDTERM – ANATOMY	23
9	Positioning: Mandible and TMJs	23
Feb. 14	Facial (inferior concha, vomer)	Feb. 28
14	Positioning: Orbits, Optic Foramina	28
16	Positioning: Mastoids and IACs	Mar. 2
Mar. 7	REVIEW – ANATOMY	Mar. 21
7	Positioning: Nasal Bones and Sella Turcica	21
9	Positioning: MIDTERM	23
Apr. 4	Zygomatic Arches	Mar. 28
(1330) 4	Facial Bones	(1330) 28
Apr. 4	Principles of Trauma	30
Apr. 11	Head and Neck Trauma	Apr. 18
(1330) 11	Thorax and Spine Trauma	(1330) 18
(1330) 13	Extremity Trauma	20

***HIGHLIGHTED LINES ARE POSITIONING LECTURES.**

COURSE OUTLINE
(continued)

MRAD 3304

ANATOMY LAB SCHEDULE

SET AC	TOPIC	SET BD
January 12	Skull Landmarks and Classifications Frontal, Parietal and Occipital	January 26
January 19	Temporal, Sphenoid and Ethmoid	February 2
February 9	MIDTERM	February 23
February 16	Facial Bones	March 2
March 9	Facial Bones Cont'd and Special Applications	March 23
April 6	Cross-section	March 30
April 13	FINAL EXAM	April 20