BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Course Outline **Part A**

Operating Unit: Health Sciences
Program: Medical Radiology
Option:

MRAD 1104
Radiographic Anatomy and Physiology

Hours/Week:	3	**Total Hours:**	48	**Term/Level:**	1
Lecture:	1	**Total Weeks:**	16	**Credits:**	3.5
Lab:	2				
Other:					

Prerequisites

Course No.	Course Name
BHSC 1113	Basic Anatomy and Physiology

MRAD 1104 is a Prerequisite for:

Course No.	Course Name

Course Goal(s)

To provide the student with an in-depth understanding of the skeleton and basic structures of the abdomen and thorax. Emphasis is placed on radiography, nomenclature, surface anatomy, specific bony structures, articulations and radiographic appearance of structures.

Course Description

During Level I of this course the lecture and laboratory material will cover the entire skeleton (exception of the skull) and the basic structures of the chest and abdomen. Emphasis both in lecture and lab will be placed on: application to radiography, nomenclature, surface anatomy, specific bony structures, articulations and radiographic appearance of structures.

Evaluation

Weekly quizzes	**15%**
Mid term exams	
Lecture	**25%**
Lab	**25%**
Final Exam	
Lecture/lab	**40%**

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

Each of the following statements are identified with the relevant Critical Task (CT) for Competency according to the C.A.M.R.T. publication, Dec. 96)

Course Outcomes and Sub-Outcomes

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

1. Describe the structure, function and relative positions of all the bones (except the skull) which comprise the human skeleton. (CT A4)
2. Describe the structure, function and relative positions of all the contents of the chest and abdominal cavities. (CT A7)
3. Locate all bony and non-bony structures using surface anatomy. (CT A4)
4. Evaluate radiographs for variations in organ locations based on *body type* and *position*. (CT A7)
5. Identify on radiographs all parts of the bony skeleton (except the skull). (CT A7)
6. Identify on radiographs selected structures within the abdomen and thorax. (CT A7)

Course Record

Developed by: _____ Date: _____
Instructor Name and Department (signature)

Revised by: _____ Date: _____
Instructor Name and Department (signature)

Approved by: _____ Start Date: _____
Associate Dean / Program Head (signature)

******This course outline may be subject to changes as the need arises.**

MRAD 1104
Radiographic Anatomy and Physiology

Effective Date

January, 1999

Instructor(s)

Mary Filippelli | Office No.: SW3-4084 | Phone: 8743
Office Hrs.: As Posted

Text(s) and Equipment

Required:

1. Principles of Anatomy and Physiology, Tortora and Anagnostakos.
2. Mosby's Pocket Dictionary of Medicine, Nursing and Allied Health.
3. C.A.M.R.T. Curriculum Guide for Radiography Programs (to be given out by program).
4. Radiographic Skeletal Anatomy, Johnson and Kennedy.
5. Radiographic Anatomy and Physiology, Student Manual.

Recommended:

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

1. Basic Physiology and Anatomy, Chaffee and Lytle.
2. Atlas of Human Cross-Sectional Anatomy, Cahill and Orland.
3. The Anatomy Coloring Book, Kapit and Elson.

Course Notes (Policies and Procedures)

Assignment Details

MRAD 1104

«Radiographic Anatomy and Physiology»

Week	Sets	Date	Lecture	Laboratory
1	All	Jan 4	Finger/thumb/hand/wrist	Finger/thumb/hand/wrist
2	All	Jan 11	Forearm/elbow/humerus	Forearm/elbow/humerus
3	All	Jan 18	Clavicle/scapula/shoulder	Clavicle/scapula/shoulder
4	All	Jan 25	Foot/ankle	Foot/ankle
5	All	Feb 1	Tibia/fibula/knee	Tibia/fibula/knee
6	All	Feb 8	Hip/femur/pelvis/SI joints	Hip/femur/pelvis/SI joints
7	All	Feb 15	**MIDTERM**	**QUIZ**
8	All	Feb 22	Introduction to Bodily Habitus	Bodily habitus
9	All	Mar 1	Chest	Chest
10	All	Mar 8	Abdomen	Abdomen
11			**SPRING BREAK**	
12	All	Mar 15	Cervical and thoracic spine	Cervical and thoracic spine
13	All	Mar 22	Lumbar spine	Lumbar spine
14	All	Mar 29	Sacrum/coccyx spine	Sacrum/coccyx spine
15	All	Apr 5	Easter Monday	**Review lab**
16	All	Apr 12	Ribs/sternum/trachea/pharynx/larynx	Ribs/sternum/trachea/pharynx/larynx
17	all	Apr 19	**FINAL EXAM WEEK**	