



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Health Sciences

Program: Medical Radiography

Option:

Course Outline Part A

MRAD 1106

Radiographic Procedures I

Hours/Week:	8	Total Hours:	130	Term/Level:	1
Lecture:	4	Total Weeks:	17	Credits:	9.5
Lab:	5				

Prerequisites

MRAD 1106 is a Prerequisite for:

Course No. Course Name

As per BCIT Calendar

Course No. Course Name

MRAD 2206 Radiographic Procedures II

Course Goals

- To introduce students to the field and practices of radiography.
 - To understand radiographic procedures necessary to carry out required positioning of upper and lower extremities, pelvis, chest and abdomen.
 - To become familiar with basic radiographic positioning principles and medical terminology.
 - To develop skills necessary to competently critique radiographs of anatomical positions covered.
 - To understand the application of technical and physical principles affecting the radiographic image.
 - To develop skills to competently discern diagnostic film.
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Course Description

This course introduces the field of radiography including the principles and terminology of imaging procedures. Emphasis will be placed on patient preparation and care as well as positioning and techniques for examinations of upper and lower extremities, pelvis, chest and abdomen. The course also covers all factors affecting radiographic technique and quality. Skills to evaluate the diagnostic and technical acceptability of the radiographs for each of the respective areas will be developed. Labs will reinforce the theoretical components of the course.

Evaluation

Weekly quizzes	10%
Mid term exams	
Lecture	20%
Lab	20%
Project	10%
Laboratory (positioning)	5%
Final Exam	35%
Lecture/lab	

All the laboratory exercises must be satisfactorily completed for a course mark to be received. 60% is the required pass mark in this course.

Course Outcomes and Sub-Outcomes

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

(Each of the following statement are identified with the relevant Critical Task for Competency (CT) according to the CAMRT publication Dec. 96.)

1. describe basic radiographic principles, basic patient positions and radiographic projections. (CT A4)
2. describe the anatomical landmarks and how they relate to specific positions. (CT A4)
3. describe differences in patient body habitus and how it relates to specific positioning requirements. (CT A4)
4. explain the basic technical requirements of radiographic examinations. (CT A5)
5. identify specific KV ranges as they relate to various anatomical areas. (CT A5)
6. in the lab, perform basic radiographic positioning of the upper extremity, lower extremity, pelvis, chest and abdomen. (CT A4)
7. explain the relationship between patient position and resultant image. (CT A7)
8. identify on radiographs the specific anatomical structures demonstrated, and evaluate for technical quality and diagnostic acceptability. (CT A7)
9. offer solutions for correction of technical and positioning errors. (CT A7)
10. explain the influence of varying patient types and technical factors on the radiographic image. (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.**



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Health Sciences

Program: Medical Radiography

Option:

Course Outline **Part B**

MRAD 1106

Radiographic Procedures I

Effective Date

January, 1999

Instructor(s)

Mary Filippelli

Office No.: SW3 4084

Phone: Loc. 8743

Office Hrs.: As Posted.

Text(s) and Equipment

Required:

- Philip W. Ballinger. *Merrill's Atlas of Radiographic Positions and Radiologic Procedures*, (8th edition).
- Laboratory Manual—Level 1.
- *Curriculum Guide for Radiography Programs*. Canadian Association of Medical Radiation of Technologists. (To be given out by program.)
- McQuillen – Martensen. (1996). *Radiographic Critique*.
- MRAD 1106 Student Manual.
- MRAD 1106 Laboratory Manual.
- MRAD 1106 Positioning Book (Pocket Inserts).

Recommended:

Bushong, S. *Radiologic Science for Technologists*, (6th edition).

Cullinan, A.M., *Producing Quality Radiographs* (2nd edition).