BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Medical Radiography
Program: Health Sciences
Option:

Course Outline Part A

MRAD 1101
Radiographic Positioning

Hours/Week:	6	**Total Hours:**	96	**Term/Level:**	1
Lecture:	3	**Total Weeks:**	16	**Credits:**	5.5
Lab:	3				
Other:					

Prerequisites

Course No.	Course Name
As per BCIT Calendar	

MRAD 1101 is a Prerequisite for:

Course No.	Course Name
MRAD 2201	Radiographic Positioning

Course Goals

- To introduce the student to the field of radiography together with providing a brief introduction to x-radiation practices.
- To assist the student to understand the radiographic procedure requirements in order to carry out the necessary positioning relative to the upper and lower extremities, chest, abdomen and pelvic girdle.

Course Description

An introductory course to the field of Radiography will be presented. Content to include basic radiographic principles and terminology. Will also include the patient preparation, care, and positioning for all the radiographic procedures for the chest, abdomen, upper extremities, shoulder girdle, lower extremities, pelvis, hip and spine.

Basic principles of patient positioning will be reinforced in the laboratory sessions where students must demonstrate their ability to position for all related examinations.

Evaluation

Final Examination	40%
Quiz (2)	40%
Project	15%
Laboratory	5%
TOTAL	100%

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:

1. Discuss the role of the Radiological Technologists in health care.

2. Describe x-ray beam directions, basic patient positions and radiographic projections.

3. Demonstrate basic radiographic projections of the upper extremity, shoulder girdle, lower extremity, pelvic girdle including hip, and spinal column.

4. Using phantoms, perform radiography of the upper extremity, shoulder girdle, lower extremity, pelvic girdle including hip, and spinal column.

5. Identify on radiographs the specific anatomical structures demonstrated in the various views common to radiography of the areas identified in #4 above.

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)

Effective Date

January, 1997

Instructor(s)

Mary Filippelli

Office No.: SW3 4084
Office Hrs.: As Posted.

Phone: Loc. 5750

Text(s) and Equipment

Required:

Merrills Atlas of Radiographic Positions and Radiologic Procedures. Philip W. Ballinger, 6th Edition.

Laboratory Manual—Level 1.

Curriculum Guide for Radiography Programs. Canadian Association of Medical Radiation of Technologists.

Recommended:

Course Notes (Policies and Procedures)

Assignment Details

MRAD 1101
LECTURE SCHEDULE

	Date	Week	Lectures
Mon	Jan 6	1	Introduction & Basic Considerations
	Jan 6		Radiographic Principles
Fri	Jan 10		Terminology
Mon	Jan 13	2	Terminology
	Jan 13		Steps in Radiography
Fri	Jan 17		Pediatric Consideration in Radiography
Mon	Jan 20	3	Considerations in Radiography
	Jan 20		Introduction to Chest Radiography
Fri	Jan 24		Chest Radiography
Mon	Jan 27	4	Introduction to Abdomen Radiography
	Jan 27		Abdomen Radiography
Fri	Jan 31		Pediatric Chest & Abdomen
Mon	Feb 3	5	**Quiz #1**
	Feb 3		Introduction to Upper Ext. Radiography
Fri	Feb 7		Finger, Thumb, Hand
Mon	Feb 10	6	Wrist & Scaphoid
	Feb 10		Forearm, Elbow, Humerus
Fri	Feb 14		Pediatric Considerations – Upper Extremity
Mon	Feb 17	7	Introduction to Lower Extremities
	Feb 17		Toes & Foot
Fri	Feb 21		Ankle Joint & Calcaneus
Mon	Feb 24	8	Tibia & Fibula
	Feb 24		Knee & Patella
Fri	Mar 28		Femur & Pelvis
Mon	Mar 3	9	Sacroiliac Joints
	Mar 3		Pediatric Considerations – Lower Extremity
Fri	Mar 7		**Quiz #2**

	Date	Week	Lectures
	Mar 10-14	10	**Spring Break**
Mon Fri	Mar 17 Mar 17 Mar 21	10	Introduction to Vertebral Radiography Cervical Spine Cervical Spine
Mon Fri	Mar 24 Mar 24 Mar 27	11	Thoracic Spine Lumbar Spine Good Friday-No Classes
Mon Fri	Mar 31 Mar 31 Apr 4	12	Easter Monday-No Classes Easter Monday-No Classes Lumbar Spine
Mon Fri	Apr 7 Apr 7 Apr 11	13	Sacrum & Coccyx Pediatric Considerations – Vertebral Radiography Spine Review
Mon Fri	Apr 14 Apr 14 Apr 17		Projects Projects Projects
	Apr 21–25	14	**Final Exam Week**