



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences

Program: Medical Imaging

Option: Medical Radiography

Course Outline Part A

MRAD 1100
Clinical Education

Hours/Week: 1A: 7, 1B: 35	Total Hours: 252	Term/Level: 1
Lecture:	Total Weeks: 21	Credits: 17
Lab:		
Other:		

Prerequisites

MRAD 1100 is a Prerequisite for:

Course Goals

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

1. Locate and explain department protocols, documentation requirements, safety features, office procedures and department workflow.
 2. Prepare the contrast medium for an upper and a lower gastrointestinal examination.
 3. Prepare a syringe with contrast medium for an IVP examination.
 4. Provide patient care that will ensure the safety of the patient, co-workers and others.
 5. Prepare the x-ray room for basic skeletal radiographic procedures.
 6. Communicate effectively with the patient prior to, during, and after a radiographic examination.
 7. Handle equipment in a competent manner.
 8. Demonstrate satisfactory interpersonal skills.
 9. Apply satisfactory positioning and technical skills during basic examinations of the chest, abdomen, upper and lower extremities.
 10. Carry out acceptable radiation protection practices.
 11. Critique radiographs of the upper and lower extremities, chest, abdomen, shoulder and pelvic girdles.
 12. Document required information pertinent to radiograph procedures.
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Course Description

Upon successful completion of department orientation, the student will be scheduled through the Department of Radiology, specifically in skeletal, injectable contrast, fluoroscopy and other relevant areas to participate in basic radiographic procedures.

Evaluation

Terminal Objectives

Upon completion of MRAD 1100 the student will have:

1. Satisfactorily completed the following evaluations:
 - A. Department Orientation
 - B. preparation of a syringe with contrast medium for an IVP examination
 - C. preparation of the contrast medium for an upper gastrointestinal examination
 - D. preparation of the contrast medium for a lower gastrointestinal procedure
 - E. one ambulatory chest examination
 - F. one supine abdomen examination
 - G. one upper extremity examination
 - H. one lower extremity examination
2. Complete the clinical experience requirements as stated in the Student Manual.

The following schedule must be adhered to for completion of the evaluations.

Two evaluations MUST be completed by each of the following dates:

Friday, April 4, 1996
Friday, April 19, 1996
Friday, May 17, 1996
Friday, May 31, 1996

The grading scheme for Clinical Evaluation is as follows:

Clinical Education requirements must be complete including the eight required evaluations, and a mark of 60 acquired if a *passing* clinical grade is to be achieved.

Clinical Education mark granted will equal the number of credits earned.

Credits for the course will be allocated as follows:

40 credits for completion of clinical evaluation requirements.

30 credits maximum for Mid Term examination.

Credits allocated as follows:	30 credits:	90 – 100%
	25 credits:	80 – 89%
	20 credits:	70 – 79%
	15 credits:	60 – 69%
	10 credits:	50 – 59%
	5 credits:	40 – 49%
	0 credits:	below 40

Evaluation (cont'd)

10 credits for achieving 1 unassisted case in each of 15 different examinations not including the cases previously entered or credited.

1 credit for every 15 assisted/unassisted cases entered in the Work Experience Record to a maximum of 10 credits. (Maximum 50 chests.)

1 credit for every 6 unassisted cases entered on the Unassisted Additional Credit Sheet and not previously entered to a maximum of 10 credits.

-5 credits for every repeat evaluation required.

-5 credits for each missed Department Orientation Recall Objective.

-5 credits for each and every discrepancy with the Student Policies.

-5 credits for commencing or carrying out a radiographic procedure without at R.T. present.

A single-area examination cannot be used to meet more than *one* objective, e.g., a request for left hip that required AP pelvis and a transfemoral view of left hip would be entered only as a "hip with transfemoral" or an abdomen series exam that included a single AP/PA chest is entered only as an abdomen series.

Course Outcomes and Sub-Outcomes

Withdrawal from Clinical Education

Mandatory Withdrawal

Students will be withdrawn from the clinical environment when they *consistently* fail to achieve the minimum acceptable standards in one or all of the following areas:

- Adherence to assigned department policies and procedures
- Patient care
- Positioning skills
- Interpersonal relationships
- Professional behaviors and attitudes
- Radiation safety
- Equipment handling

Withdrawal from Clinical Education (cont'd)

Voluntary Withdrawal

Students may voluntarily withdraw from Clinical Education MRAD 1100. Counselling with respect to the career choices is available to all students.

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)



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences
Program: Medical Imaging
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Course Outline Part B

MRAD 1100
Clinical Education

Effective Date

January, 1996

Instructor(s)

D. Bahre, ACR / R. McLaughlin, ACR /
V. Palm, ACR

Office No.: SW3-4077
Office Hrs.:

Phone: 5417

The student will gain experience under the *direct supervision* of the Instructor/hospital technologist.

Text(s) and Equipment

Required:

- Clinical Education Manual – Level 1
- R & L markers
- Tape measure
- Pens, felt tip and ball point
- Student Positioning Notebook from MRAD 1101

Recommended:

Ballinger, Philip W.M.S., P.T. (R). (1986). Merrill's atlas of radiographic positions and radiologic procedures (6th ed.). (Vol. 1, 2, 3). Toronto: C.V. Mosby Co.

Kozier, B., & Erb, G. (1987). Fundamentals of nursing concepts and procedures (3rd ed.). Addison Wesley.

Cullinan, Cullinan. (1994). Producing Quality Radiographs (2nd ed.). J.B. Lippincott Company.

Course Notes (Policies and Procedures)

Assignment Details
