



A POLYTECHNIC INSTITUTION

School of Health Sciences
Program: Medical Imaging
Option: Medical Radiography

MRAD 1108
Clinical Education

Start Date:	May 1, 2002	End Date:	May 29, 2003
Total Hours:	140	Total Weeks:	4
Hours/Week:	35	Lecture:	Lab:
Term/Level:		Course Credits:	6.0
Shop:		Seminar:	Other: Clinical Experience
Prerequisites: successful completion of		MRAD 1108 is a Prerequisite for:	
Course No.	Course Name	Course No.	Course Name
MRAD	1102, 1104, 1106, 1107	MRAD 2210	Clinical Education 2
BHSC	1113, 1241		
NURS	1180		
PHYS	1275		

■ Course Description

Provides students with an orientation to the clinical area and the opportunity to gain experience in basic radiographic positioning and techniques relating to the chest, abdomen and upper and lower extremities as well as preparation of contrast media.

■ Detailed Course Description

The goal of this course is to introduce the student to the hospital Imaging Department while gaining experience in basic radiographic procedures.

■ Evaluation

Upon completion of **MRAD 1108** and in order to proceed to the next level the student will have:

1. Satisfactorily completed the following procedure evaluations:
 - Upper skeletal
 - Lower skeletal
 - Supine abdomen (single view, ambulatory) **OR** Chest (2 view ambulatory)
2. Completed the clinical experience objectives/requirements as stated in the student's Workbook for Clinical Education Requirements (MRAD 1108).

■ Evaluation (cont'd)

Grading Scheme for Clinical Evaluation

1. The student must achieve a **competent (C)** standing or better on all evaluation criteria **designated Critical Behaviors "C."**

Failure to successfully achieve any of the designated Critical Behaviors requires a repeat evaluation.

2. For those evaluation criteria **not deemed** as Critical Behaviors, the student must achieve a **marginal (M)** standing or better.

A **maximum of two (2) marginal (M)** achievements allowed per section, otherwise a repeat evaluation is required.

3. Repeat Evaluations

If the first evaluation is unsuccessful then:

- a. student must perform 1 unassisted case of the same anatomical area before attempting another evaluation.
- b. repeat the evaluation.

If the second evaluation is unsuccessful, the student will repeat steps a. & b. above.

The student can continue in this manner until:

- a. a successful evaluation is obtained.
- b. the clinical term has ended.

* Deadline for achieving successful evaluations is the last clinical day.

** Students will not be allowed to change anatomical areas from their selected 1st evaluation, e.g., upper, lower extremities, chest, abdomen.

Professional Behaviors and Practice

Students are required to successfully attain Professional Behavior and Practice assessment in the clinical area by supervising technologists and the clinical instructor. Unsuccessful PBP's will be repeated. An additional assessment will be completed by the clinical instructor in the event of ongoing concerns. Failure to improve will result in intervention by the clinical coordinator/program head. Recommendation for pass or failure will be made at this time.

■ Course Learning Outcomes/Competencies

Upon successful completion, the student will be able to:

1. orient themselves to the radiographic area of the imaging department.
 - locate and explain department protocols, documentation requirements, safety features, office procedures and department workflow.
 - participate in hospital orientation programs (if available).
2. prepare contrast medium for an upper and lower GI examination.
3. prepare a syringe with contrast medium for an IVP examination.
4. provide patient care that will ensure safety of patient, co-workers and others.

■ **Course Learning Outcomes/Competencies (cont'd)**

5. prepare the x-ray room for basic skeletal radiographic procedures.
6. communicate effectively with the patient prior to, during and after radiographic examination.
7. handle radiographic/accessory equipment in a competent manner.
8. demonstrate appropriate 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 and abdomen.
12. document required information pertinent to radiographic procedures.
13. demonstrate professional behaviors and attitudes.

■ **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
- **breach of patient confidentiality**

Voluntary Withdrawal

Students may voluntarily withdraw from Clinical Education 1108. Counseling with respect to alternate career choices is available to all students.

■ **Verification**

I verify that the content of this course outline is current.

Dori Kaplun
Authoring Instructor

March 12, 2003
Date

I verify that this course outline has been reviewed.

Mary Filippelli
Program Head/Chief Instructor

March 12, 2003
Date

I verify that this course outline complies with BCIT policy.

Dean/Associate Dean

Date

Note: Should changes be required to the content of this course outline, students will be given reasonable notice.

■ Instructor(s)

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■ Learning Resources

Required:

Pocket Positioning Notes (MRAD 1108)
Clinical Education in Medical Radiography – Student Policies Manual
R & L markers
Pens: felt tip and ball point

Tape measure
Student Name Tag
TLD

■ Learning Resources

Recommended:

Ballinger, Philip, WMS ®. *Merrill's atlas of radiographic positions and radiologic procedures* (6th ed.), (Vol.1-3). Toronto: C.V. Mosby Co.
Kozier, R. & Erb, G. (1987). *Fundamentals of nursing concepts and procedures* (3rd ed.). Addison Wesley.
Tortora, Gerald J. & Anagnostakos, Nicholas P. *Principles of anatomy and physiology* (8th ed.). New York: Harper & Row.

■ Information for Students

(Information below can be adapted and supplemented as necessary.)

Assignments: Late assignments, lab reports or projects will **not** be accepted for marking. Assignments must be done on an individual basis unless otherwise specified by the instructor.

Makeup Tests, Exams or Quizzes: There will be **no** makeup tests, exams or quizzes. If you miss a test, exam or quiz, you will receive zero marks. Exceptions may be made for **documented** medical reasons or extenuating circumstances. In such a case, it is the responsibility of the student to inform the instructor **immediately**.

Ethics: BCIT assumes that all students attending the Institute will follow a high standard of ethics. Incidents of cheating or plagiarism may, therefore, result in a grade of zero for the assignment, quiz, test, exam, or project for all parties involved and/or expulsion from the course.

Attendance: The attendance policy as outlined in the current BCIT Calendar will be enforced. Attendance will be taken at the beginning of each session. Students not present at that time will be recorded as absent.

Illness: A doctor's note is required for any illness causing you to miss assignments, quizzes, tests, projects, or exam. At the discretion of the instructor, you may complete the work missed or have the work prorated.

Attempts: Students must successfully complete a course within a maximum of three attempts at the course. Students with two attempts in a single course will be allowed to repeat the course only upon special written permission from the Associate Dean. Students who have not successfully completed a course within three attempts will not be eligible to graduate from the appropriate program.

Course Outline Changes: The material or schedule specified in this course outline may be changed by the instructor. If changes are required, they will be announced in class.

Misconduct: Students are expected to conduct themselves appropriately at all times. This applies to any institutional related activity on or off campus. Misconduct is defined as any action that is detrimental to the interest of the Institute or safety of others, and includes, but is not limited to the following:

- threats
- abusive language
- assaults
- theft
- damage to property
- under the influence of mind-altering substances
- disruption of instructional activities or services
- unlawful entry to buildings
- possession of weapons, or any instrument designed to inflict injury
- unauthorized use of equipment
- offering a bribe

If it appears to be a criminal matter, the Director of Safety and Security will be notified and consulted. For full details of this policy see www.bcit.ca/~presoff/5251.htm#Policy.

■ Assignment Details