

*A POLYTECHNIC INSTITUTION**School of Health Sciences**Program: Medical Imaging**Option: Medical Radiography***MRAD 1108**
Clinical Education**Start Date:** May 1, 2006**End Date:** May 29, 2006**Total Hours:** 140 **Total Weeks:** 4 (20 days) **Term/Level:** **Course Credits:** 5.5**Hours/Week:** 35 – based on 7 hour working day (excluding breaks)**Prerequisites:** successful completion of**MRAD 1108 is a Prerequisite for:****Course No.** **Course Name****Course No.** **Course Name**MRAD Level 1 course prior to
clinical start

MRAD Level 2

Course Description

The goal of this course is to provide the necessary radiographic experiences for students to continue to gain confidence with the basic skill sets learned at BCIT. Opportunities will be given to students to apply patient care knowledge in a clinical environment and to demonstrate a high standard of professional behaviours. Students will be expected to demonstrate competence on ambulatory patients in the following procedures: upper and lower extremities, chest and abdomen as well as preparation of contrast media.

Course Learning Outcomes/Competencies

The course outcomes correspond with the published CAMRT competency profile. 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.
4. provide patient care that will ensure safety of 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 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. document required information pertinent to radiographic procedures.
12. demonstrate professional behaviors and attitudes.

Grading

This course has a grade of Satisfactory or Unsatisfactory. In order to successfully complete Level 1 clinical, students must complete the workbook requirements, successfully achieve three procedure evaluations, and have successful weekly formative evaluations.

Workbook Requirements

It is the **student's responsibility** to ensure completion of all clinical workbook requirements. These requirements must be successfully completed in order to proceed into Level 2. Students are allowed to work on all the unassisted workbook requirements for all of the areas simultaneously once the minor objectives have been met. It is the student's responsibility to document the necessary activities and obtain the required signatures for work completed. The Level 1 workbook requirements consist of:

- department orientation
- upper skeletal, lower skeletal and pelvic girdle
- chest and abdomen
- radiographic critique
- applied theory

Competency Procedural Evaluations:

The student must successfully complete three (3) competency evaluations on type 1 cases in order to proceed into the next Level. Competency evaluations may be attempted once a minimum of 75% of the workbook requirements have been attained. The evaluations must be done on each of the following categories:

- upper skeletal
- lower skeletal
- supine abdomen (single view) **OR** chest (2 views)

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.
- * 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.

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

The student can continue in this manner until a successful evaluation is obtained or the clinical term has ended.

Formative Evaluations

Students will be evaluated on their overall clinical skills on an ongoing basis by the clinical instructor and staff technologists. The evaluated skills include technical, patient care interpersonal and professional behaviours.

In consultation with the clinical instructor, students will request technologists to complete the formative evaluations. Each attribute on the assessment form will be marked by 1 – 4, indicating the consistency of a skill or behaviour. On the bottom of the form is the grading scheme which determines the outcome of the assessment.

Evaluations are done every week and additional formative evaluations are completed at the discretion of the CI. Additional assessments will also be completed in the event of unsatisfactory evaluations. Failure to improve will result in intervention by the clinical coordinator/program head.

Withdrawal from Clinical Education

Mandatory Withdrawal

Students will be withdrawn from the clinical environment if they are unable to physically engage and undertake all required activities. Withdrawal from clinical will also be required if students fail to achieve the minimum acceptable standards in one or all of the following areas:

- adherence to BCIT and assigned department policies and procedures
- patient care and safety
- positioning skills
- interpersonal relationships
- professional behaviors and attitudes
- radiation safety
- equipment handling
- **breach of patient confidentiality**

For further information refer to the Student Clinical Policy Manual as well as the BCIT website.

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.



Authoring Instructor

April 8, 2005

Date

I verify that this course outline has been reviewed.



Program Head/Chief Instructor

April 8, 2005

Date

I verify that this course outline complies with BCIT policy.



Dean/Associate Dean

14 December, 2005

Date

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

Instructor(s)

The student will gain experience under the **direct supervision** of the instructor/hospital technologist. For contact information refer to the BCIT medrad website.

Learning Resources

Required:

Pocket Positioning Notes (MRAD 1108) and workbook
Clinical Student Policies Manual
R & L markers
Pens: felt tip and ball point

Tape measure
Student Name Tag
TLD
Regulation uniform and shoes

Information for Students

Attendance: The attendance policy as outlined in the current BCIT Calendar will be enforced.

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.

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 can be found on the BCIT website

If it appears to be a criminal matter, the Director of Safety and Security will be notified and consulted.

All institute policies are available for review at <http://www.bcit.ca/files/pdf/policies/5002.pdf>.