



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Operating Unit: Health Sciences

Program: Medical Imaging

Option: Medical Radiography

**MRAD 1108**

Clinical Education

<http://online.bcit.ca>

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**Start Date:** May 1, 2002

**End Date:** May 29, 2002

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**Course Credits:** 46

**Term/Level:**

**Total Hours:** 140

**Total Weeks:** 4

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**Hours/Week:** 35    **Lecture:**    **Lab:**    **Shop:**    **Seminar:**    **Other:** Clinical Experience

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**Prerequisites**

**Course No.    Course Name**  
MRAD 1102, 1104, 1106, 1107  
BHSC 1113, 1241  
NURS 1180  
PHYS 1275

**MRAD 1108 is a Prerequisite for:**

**Course No.    Course Name**  
MRAD 2210 Clinical Education 2

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**Course Calendar 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.

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**Course Goals**

To introduce the student to the hospital Imaging Department while gaining experience in basic radiographic procedures.

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**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:
    - Department Orientation
    - 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).
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### 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 Behaviour 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.

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### Course Learning Outcomes/Competencies

Upon successful completion of this course, 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.

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

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. 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.

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**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.

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**Course Content Verification**

I verify that the content of this course outline is current, accurate, and complies with BCIT Policy.

M. Filippelli  
Program Head/Chief Instructor

April 8/02  
Date

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



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**MRAD 1108**

**Clinical Education**

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**Learning Resources**

**Required:**

- Pocket Positioning Notes (MRAD 1108)
- Clinical Education in Medical Radiography Manual
- R & L markers
- Pens: felt tip and ball point
- Tape measure
- Student Name Tag
- Level Pin
- TLD

**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.