



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Operating Unit: Health Sciences

Program: Medical Imaging

Option: Medical Radiography

## Course Outline

**MRAD 1108**

**Clinical Education**

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**Start Date:** May 3/99

**End Date:** May 28/99

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**Course Credits:** 46

**Term/Level:**

**Total Hours:** 133

**Total Weeks:** (19 days)

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

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### Prerequisites

**Course No.   Course Name**

MRAD 1107

### MRAD 1108 is a Prerequisite for:

**Course No.   Course Name:**

MRAD 2200 Clinical Education 2

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### Course Calendar Description

The student will gain radiographic experience in the clinical facility. This will involve skeletal, chest and abdominal radiography, radiographic contrast preparation, and opportunity to participate in radiographic contrast studies, e.g., IVPs and fluoroscopy.

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

### Grading Scheme for Clinical Evaluation:

1. The student must achieve a **competent (3)** 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 (2) standing or better.

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

3. Repeat Evaluations

**If the first evaluation is unsuccessful then:**

- a. student must perform 3 unassisted cases of the same anatomical area.
- 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.

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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.
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. Counselling 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.

  
\_\_\_\_\_  
Program Head/Chief Instructor

  
\_\_\_\_\_  
Date

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



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### Instructor(s)

M. Filippelli  
Clinical Coordinator

Office No.: SW3 – 4077  
Office Hrs.:

Office Phone: 432-8743  
E-mail Address:

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Clinical Instructors: Patti Anderson  
Brent Czettisch  
Helen Domshy

Lois Doody  
Mary Filippelli  
Louise Kalhood

Dori Kaplun  
Rita McLaughlin  
Valerie Palm  
Anna Yoshida

The student will gain experience under the direct supervision of the clinical instructor/hospital **staff technologist**.

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### Learning Resources

#### Required:

- Pocket Positioning Notes (MRAD 1106)
- Clinical Education in Medical Radiography Manual
- R & L markers
- Tape measure
- Pens: felt tip and ball point
- Student Name Tag
- Level Pin
- TLD

#### Recommended:

Ballinger, Philip, WMS ®. *Merrill's atlas of radiographic positions and radiologic procedures* (6th ed.), (Vol. 1, 2, 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.

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### BCIT Policy Information for Students

Refer to student manual.

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### Assignment Details