



A POLYTECHNIC INSTITUTION

Course Outline

School of Health Sciences  
Program: Medical Radiography Technology  
Option:

**MRAD 2210**  
**Clinical Education**

**Start Date:** September 7, 2004

**End Date:** December 3, 2004

**Total Hours:** 245 **Total Weeks:** 7

**Term/Level:** 2 **Course Credits:** 10

**Hours/Week:** 35 **Lecture:** **Lab:**

**Shop:** **Seminar:** **Other:**

**Prerequisites**

**Course No.** **Course Name**  
Level 1 All courses

**MRAD 2210 is a Prerequisite for:**

**Course No.** **Course Name**  
MRAD Level 3 All courses

■ **Course Description**

The goal of this course is to provide the necessary radiographic experiences for the student to continue to gain confidence with an advanced skill set learned at BCIT. The opportunity will be provided 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 in the following procedures: upper and lower extremities (including trauma patients), shoulder girdle, pelvis and hip, non-ambulatory chest and abdomen, non-traumatic vertebra, routine fluoroscopy.

■ **Course Learning Outcomes/Competencies**

Upon successful completion, the student will be able to:

1. prepare the radiographic room for the examination to be done.
2. provide satisfactory patient care for all patients associated with the course requirements, with the exception of trauma patients.
3. communicate effectively with the patient prior to and during the examination.
4. interact appropriately with all members of the health care team.
5. apply satisfactory positioning technique skills for all examinations of the course requirements.
6. handle the required equipment in a competent manner.
7. carry out acceptable radiation safety precautions for patients, staff and self at all times.
8. interpret patient requisition with minimal assistance.
9. document information as necessary for each procedure carried out.
10. competently critique radiographs associated with selected contracted area.
11. organize work effectively.
12. demonstrate professional behaviours and attitudes.

The course outcomes correspond with the following competency profiles of the CAMRT

A1 Utilize the request for consultation	C1 Ensure patient safety
A2 Prepare the room for radiographic imaging procedures	C2 Establish patient trust and confidence
A3 Prepare the patient	C3 Attend to the patient's physical comfort and needs
A4 Position the patient	C4 Perform patient care duties
A5 Operate imaging equipment	C5 Assist in the administration of contrast media and other drugs
A6 Process images	C6 Ensure the confidentiality of patient information
A7 Critique images and implement corrective measures	D1 Monitor and maintain processing equipment and facilities
A8 Complete post-procedural tasks	D2 Monitor radiographic equipment
B1 Protect the patient	D3 Perform quality control tasks
B2 Protect the technologist	E1 Function within legal and ethical guidelines
B3 Protect others required to be present during the procedure	E2 Demonstrate professional behaviour
B4 Monitor personal radiation exposure	E3 Demonstrate professional responsibility

## ■ Evaluation

The student must successfully complete **four (4) evaluations** in level 2 in order to proceed into the next clinical level.

The student must successfully perform **three (3) performance evaluations** on "type 2" cases:

- **hip (transfemoral) or shoulder evaluation**
- **spine (with obliques) or stretcher chest**
- **IVP or multi view abdomen or double contrast enema (with overheads)**
- The student must successfully demonstrate **sterile technique** competency.

**The Level 2 requirements consist of:**

- department orientation.
- equipment and processing.
- upper skeletal, spine and thoracic cage.
- lower skeletal and pelvic girdle.
- IVP, chest and abdomen.
- fluoroscopic procedures.
- pathology correlations

In addition to the above all students must:

1. *complete the UNASSISTED WORK RECORD SHEETS.*
2. *complete 5 successful blood pressure readings.*
3. *successfully complete a department orientation for each new clinical site.*
4. *successfully complete the required pathology assignments.*
5. *successfully complete the required applied theory assignments.*

It is the **student's responsibility** to ensure completion of all clinical requirements. These requirements must be successfully completed in order to proceed into Level 3.

Students are allowed to work on all the requirements for **ALL** of the areas simultaneously.

It is the student's responsibility to document the necessary activities and obtain the required signatures for work completed. The student's hospital rotation will be designed to allow for achievement of the specified objectives in each contract.

### Grading Scheme for Clinical Evaluation:

1. For **successful procedural evaluations**, the student must achieve a competent standing (**C**) or better on all evaluation criteria designated **Critical Behaviours "C"**.  
Failure to achieve any of the designated Critical Behaviours requires a repeat evaluation.
2. For **successful evaluation**, the student must achieve a marginal standing (**M**) or better for those evaluation criteria **not deemed** as Critical Behaviours.  
A **maximum of two (2) marginal** achievements allowed per evaluative 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.

\* Deadline for achieving successful evaluations is the last clinical day.  
\*\* Students will not be allowed to change anatomical areas from their selected 1<sup>st</sup> 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) a successful evaluation is obtained.
  - b) the clinical term has ended.

### Professional Behaviours 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.

### ■ 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 consistently fail to achieve the minimum acceptable standards in one or all of the following areas:

- Adherence to BCIT Student Clinical Policies
- Adherence to assigned clinical department policies and procedures
- Patient care
- Positioning skills
- Interpersonal relationships
- Professional behaviours and attitudes
- Radiation safety
- Equipment handling

#### Voluntary Withdrawal

Students may voluntarily withdraw from Clinical Education MRAD 2210. Counselling with respect to career choices is available to all students.

## ■ Verification

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

_____ Authoring Instructor	_____ Date
-------------------------------	---------------

I verify that this course outline has been reviewed.

_____ Program Head/Chief Instructor	_____ 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)

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

	Hospital	Email Address	Phone	Pager #
<b>Clinical Co-ordinator</b>				
Dori Kaplun; ACR, MEd	BCIT SW3 - 4084	dori_kaplun@bcit.ca	604.432.8743	604 320-8644
<b>Instructors</b>				
<b>Donna</b> MacIntosh; RTR, BSC, PGCE	Burnaby/ Lions Gate	donna_macintosh@bcit.ca	604.432.8639	
<b>Freda</b> Cook; ACR, BTech	VGH	freda_cook@bcit.ca	604.431.4939	
<b>Helen</b> Galloway; RTR	Ridge Meadows		604.463.1800	
<b>Judith</b> Holt; ACR, BAppSc	St. Pauls	judith_holt@bict.ca	604.431.4936	
<b>Lois</b> Doody; RTR, MEd	MSA / Surrey	lois_doody@bcit.ca	604.432.8336	604 650-4391
<b>Michelle</b> Beauchamp; RTR, ID	Peace Arch / Richmond	michelle_beauchamp@bcit.ca	604.456.88185	604 650-4390
<b>Trish</b> Callaghan; RTR	Eagle Ridge		604.469.3172	
<b>Valerie</b> Palm; ACR, MEd, FCAMRT	RCH	valerie_palm@bcit.ca	604.412.7531	

## ■ Learning Resources

### Required:

Clinical workbook  
R and L markers  
Tape measure  
Pens, felt tip and ballpoint

Regulation uniform and shoes  
Name tag, TLD  
Student clinical positioning handbook  
program required textbooks

## ■ Information for Students

**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.

**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](http://www.bcit.ca/~presoff/5251.htm#Policy).