



A POLYTECHNIC INSTITUTION

Course Outline

School of Health Sciences  
Program: Medical Radiography Technology  
Option:

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

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<b>Start Date:</b>	September, 2002	<b>End Date:</b>	December, 2002
<b>Total Hours:</b>	245	<b>Total Weeks:</b>	7
<b>Hours/Week:</b>	35	<b>Lecture:</b>	
		<b>Lab:</b>	
<b>Prerequisites</b>		<b>MRAD 2210 is a Prerequisite for:</b>	
<b>Course No.</b>	<b>Course Name</b>	<b>Course No.</b>	<b>Course Name</b>
Level 1	All courses	MRAD 4400	Clinical Education

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### ■ Course Description

Provides students with practical experience in the following areas: upper and lower extremities (including trauma patients), non-ambulatory chest with IV or drainage tubes, non-traumatic vertebra, routine fluoroscopy and IVP'.

### ■ Detailed Course Description

The goal of the course is to provide the necessary radiographic experiences for the student to gain confidence with the increased skill set learned at BCIT, to provide an opportunity for the student to apply patient care knowledge in a clinical environment and to give the student an opportunity to demonstrate a high standard of Professional Behaviours.

### ■ 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:

- The student must perform the following procedural evaluations.
  - **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.

## ■ Evaluation (cont'd)

In addition to the above all students must:

1. *complete the UNASSISTED WORK RECORD SHEETS.*
2. *complete 7 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 evaluation, 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.

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.

#### 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.

## ■ Evaluation (cont'd)

### 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.

## ■ 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.

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

### 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 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
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I verify that this course outline has been reviewed.

_____ Program Head/Chief Instructor	_____ Date
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I verify that this course outline complies with BCIT policy.

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

■ **Instructor(s)**

	Office	Email Address	Phone	Pager #
<b>Clinical Co-ordinator</b>				
Dori Kaplun ACR, MEd	BCIT SW3 - 4084	dkaplun@bcit.ca	604 432-8743	604 320-8644
<b>Instructor(s)</b>				
Freda Cook, ACR, BTech	BCIT SW3 - 4084	freda_cook@bcit.ca	604 432-8743	604 650-4391
Helen Galloway, RTR	Eagle Ridge Hospital/ Ridge Meadows		604 432-8743	
Lisa Fawkes, RTR	Lions Gate Hospital	dpoelzer@nshr.hnet.bc.ca	604 988-3131 L4453	
Lois Tanner, RTR	BCIT SW3 - 4077	lois_doody@bcit.ca	604 412-7531	
Michelle Beauchamp RTR	BCIT SW3 - 4084	michelle_beauchamp@bcit.ca	604 432-8743	604 650-4390
Nancy Pascal, RTR	MSA Hospital	nancy.pascal@fraserhealth.ca	604 870-7499	
Sue Rogers, ACR	Surrey Memorial	sue.rogers@fraserhealth.ca	604 588-3308	

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

■ **Learning Resources**

*Required:*

Clinical Education Workbook 2210

1. R and L markers
2. Tape measure
3. Pens, felt tip and ballpoint
4. Uniform and shoes as detailed in the Clinical Education Manual
5. Name tag, level pin, TLD
6. Student clinical positioning handbook

*References:*

Ballinger, Philip W., M.S., P.T. (R). *Merrill's Atlas of Radiographic Positions and Radiologic Procedures*. (8th Edition). C.V. Mosby Co., Toronto.

Bushong, Stewart, *Radiologic Science for Technologists*. Mosby Publishers.

Cullinan & Cullinan. *Producing Quality Radiographs* (2nd Edition). J.B. Lippincott Company.

*Taber's Cyclopedic Medical Dictionary*. C.V. Mosby.

Tortora, Gerard J. & Anagnostakos, Nicholas P. *Principles of Anatomy and Physiology* (6th Edition). Harper & Row, New York.

Kozier & Erb. *Fundamentals of Nursing, Concepts and Procedures*.

■ **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.

## ■ Assignment Details

- see workbook