



A POLYTECHNIC INSTITUTION

Course Outline

School of Health Sciences
Program: Medical Radiography Technology
Option:

MRAD 2210
Clinical Education

Start Date: October 3, 2005 End Date: December 9, 2005
Total Hours: 245 Total Weeks: 5 Term/Level: 2 Course Credits: 7.5
Hours/Week: 37.5 Lecture: Lab: Shop: Seminar: Other:

Prerequisites

Course No. Course Name
All Level 1 Courses

MRAD 2210 is a Prerequisite for:

Course No. Course Name
MRAD Level 3

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. 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 and routine fluoroscopy. Opportunities will be provided for students to apply patient care knowledge in a clinical environment and to demonstrate a high standard of professional behaviours.

Course Learning Outcomes/Competencies

The course outcomes correspond with the CAMRT competency profile. 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.

Grading

This course has a grade of **Satisfactory** or **Unsatisfactory**. In order to successfully complete Level 2 clinical, students must complete the workbook requirements, successfully achieve three procedure evaluations, demonstrate sterile technique competency 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 3. The Level 2 requirements consist of:

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

In addition to the above all students must successfully complete:

- blood pressure readings
- pathology assignments
- applied theory assignments

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.

Procedural Clinical Evaluations:

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 a minimum of "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 also successfully demonstrate **sterile technique competency**.

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

Professional Behaviours and Practice & Technical Skills

Students are required to successfully attain weekly Professional Behaviours and Practice (PBP) and Technical Skill assessments in the clinical area by supervising technologists and the clinical instructor.

In the event of unsatisfactory evaluations, additional assessments will be completed. 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 and assigned department policies and procedures
- patient care and safety
- positioning skills
- interpersonal relationships
- professional behaviours and attitudes
- radiation safety
- equipment handling
- **breach of patient confidentiality**

Voluntary Withdrawal

Students may voluntarily withdraw from Clinical Education. 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 - Dori Kaplun



Date

I verify that this course outline has been reviewed.



Program Head - Mary Filippelli



Date

I verify that this course outline complies with BCIT policy.



Associate Dean - Allen Billy



Date

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

Instructors

The student will gain experience under the **direct supervision** of the instructor / hospital technologist. Instructor contact information is found on the BCIT clinical website.

Learning Resources

Required:

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

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

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>.