Course Outline

BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Operating Unit: Health Sciences
Program: Medical Radiography Technology
Option:

MRAD 2210
Clinical Education

Start Date: September 20001 **End Date:** December 2001

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

Total Hours: 245
Total Weeks: 7

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 4400	Clinical Education

Course Calendar 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's.

Course Goals

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. To give the student an opportunity to demonstrate a high standard of Professional Behaviours.
Evaluation

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.

In addition to the above:

1. *All students must complete the UNASSISTED WORK RECORD SHEETS.*
2. *All students must complete 7 successful blood pressure readings.*
3. *All students must successfully complete a Department Orientation for each new clinical site.*

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 Behaviors "C"**.

   Failure to achieve any of the designated Critical Behaviors 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 Behaviors.

   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 1st evaluation, e.g., upper, lower extremities, chest, abdomen.

   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.

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 of this course 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 behaviors and attitudes.

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 behaviors 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.

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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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.*