



A POLYTECHNIC INSTITUTION

School of Health Sciences

Program: Medical Radiography

Option:

**MRAD 3317****Pathology for Medical Radiographers****Start Date:** January, 2005**End Date:** April, 2005**Total Hours:** 45 **Total Weeks:** 15**Term/Level:** 3 **Course Credits:** 3**Hours/Week:** 3 **Lecture:** 2 **Lab:** 1**Shop:** **Seminar:** **Other:****Prerequisites****Course No. Course Name**

MRAD 2216 Radiographic Procedures

MRAD 2217 Pathology for Medical Radiographers

MRAD 2214 Radiographic A &amp; P

**MRAD 3317 is a Prerequisite for:****Course No. Course Name**

MRAD 4400 Clinical Education

**v Course Description**

This course follows MRAD 2217 and includes relevant pathologies of the respiratory, gastrointestinal, urinary, mammary, cardiovascular, nervous, lymphoreticular, endocrine systems and the remaining skeletal system pathologies not covered in MRAD 2217.

**v Detailed Course Description**

Level Three deals with pathologies of body systems. The goals of this course are to:

- provide the students with the knowledge necessary to make informed decisions about projections, technique changes and patient care associated with different pathologic processes.
- identify a select group of pathologies as they appear radiographically.
- give students a broad knowledge of the more common pathologic processes.

**v Evaluation**

Final Examination	35%
Midterm #1	25%
Midterm #2	25%
Modules	10%
Lab Quiz	10%
Optional Assignment	5%
<b>TOTAL</b>	<b>100%</b>

**Comments: The pass mark for all courses in the medical radiography program is 60%.**

**If the optional assignment is submitted, the final exam will be worth 30% of the final grade.**

## v Course Learning Outcomes/Competencies

### CAMRT COMPETENCIES

On successful completion of the above outcomes, you should be prepared to perform the following competencies as defined in the "Competency Profile" for radiographers established by the CAMRT.

### Pathology for Medical Radiographers 2

#### Critical Tasks

**A1      *Utilize the request for consultation***

- A1.3      Review previous imaging procedures
- A1.4      Evaluate the correlation between clinical information provided and the requested examination
- A1.5      Prioritize work
- A1.6      Plan the radiographic imaging procedure

**A2      *Prepare room for radiographic imaging procedures***

- A2.4      Ensure the availability and operation of medical care apparatus and supplies
- A2.5      Obtain accessory imaging apparatus
- A2.6      Select/prepare imaging system

**A3      *Prepare the patient***

- A3.2      Confirm clinical information with the patient or clinical staff, adjusting the examination when necessary
- A3.4      Confirm patient preparation
- A3.5      Remove all items that would compromise the quality of the image
- A3.10     Record additional clinical information

**A4      *Position the patient***

- A4.1      Plan/adapt positioning requirements according to patient condition

**A5      *Operate image equipment***

- A5.8      Select/modify exposure factors on the basis of the patient considerations

**A7      *Critique images and implement corrective measures***

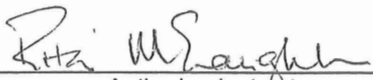
- A7.9      Confirm that any pathologies and anomalies are adequately visualized
- A7.11     Determine if consultation with physician is necessary prior to dismissal of patient
- A7.12     Evaluate the need for additional views and perform if required

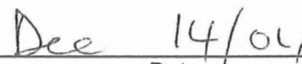
**C4      *Perform patient care procedures***

- C4.9      Recognize the need for immediate medical attention

**v 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.

## v Instructor(s)

Rita McLaughlin	Office Location: SW3 4084	Office Phone: 604-456-8181
	Office Hrs.: Mon.–Fri. 830–1630 by appointment	E-mail Address: rita_mclaughlin@bcit.ca

## v Learning Resources

### *Required:*

1. *Pathology for Medical Radiographers* – MRAD 3317 – Pathology 2, Course Manual
2. *Mosby's Medical and Nursing Dictionary*, C.V. Mosby Co.

### *Recommended:*

1. *Radiographic Pathology for Technologists*, J.D. Mace & N. Kowalczyk. (1998). 3rd Ed. St. Louis: Mosby.
2. *Radiographic Pathology*, T. Linn-Watson. (1996). Philadelphia: W.B. Saunders Company.

## v 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.

**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.

## v Assignment Details

### Case Study Assignment

You may choose to complete a case study on a pathological condition. To complete this assignment you will research one pathological condition covered in the Level 3 curriculum, obtain copies of appropriate films if possible, discuss the pathology indicating the **classification of disease, etiology, pathogenesis, signs and symptoms and radiographic appearance**. You will also research and discuss **treatment and prognosis**. To complete this assignment you should submit an essay using the given headings. The submission should be a minimum of two double spaced single sided pages. This assignment is due one week prior to the conclusion of lectures for the term. Students who choose to complete this assignment will have the final examination worth 30% of the final grade.

### Module Assignments

There will be several modules in this course. Submission of completed modules within specified deadlines will earn you 10% of the final grade.

### Laboratory Quizzes

Lab quizzes will count towards 10% of the final grade for this course.