



A POLYTECHNIC INSTITUTION

School of Health Sciences
Program: Medical Radiography
Option:

MRAD 3317
Pathology for Medical Radiographers

Start Date: January, 2006

End Date: April, 2006

Total Hours: 45 **Total Weeks:** 15

Term/Level: 3 **Course Credits:** 3

Hours/Week: 3 **Lecture:** 2 **Lab:** 1

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

Prerequisites

MRAD 3317 is a Prerequisite for:

Course No.	Course Name
MRAD 2216	Radiographic Procedures
MRAD 2217	Pathology for Medical Radiographers
MRAD 2214	Radiographic A & P

Course No.	Course Name
MRAD 4400	Clinical Education

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.

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.

Evaluation

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

Comments: The pass mark for this course is 60%.

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

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*

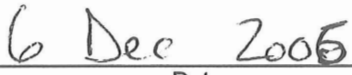
- C4.9 Recognize the need for immediate medical attention

Verification

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

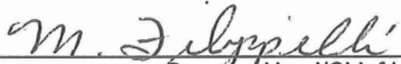


Authoring Instructor



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)

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

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. *Comprehensive Radiographic Pathology*, R.L. Eisenberg & N.M. Johnson. (2003). 3rd Ed. St. Louis: Mosby.
2. *Human Diseases: A Systemic Approach*, M.L. Mulvihill, M. Selman, P. Holdaway, E. Tompany and J. Turchany. (2000). 5th ed. New Jersey: Prentice Hall.

Information for Students

(Information below can be adapted and supplemented as necessary.)

The following statements are in accordance with the BCIT Student Regulations policy 5002. To review the full policy, please refer to: <http://www.bcit.ca/~presoff/5002.pdf>

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.

Academic Misconduct: Violations of academic integrity, including dishonesty in assignments, examinations or other academic performances are prohibited and will be handled in accordance with the "Violations of Standards of Conduct" section of Policy 5002.

Attendance/Illness: In the case of illness or other unavoidable cause of absence, the student must communicate as soon as possible with his/her instructor or Program Head or Chief Instructor, indicating the reason for the absence. Prolonged illness of three or more consecutive days must have a BCIT medical certificate sent to the department. Excessive absence may result in failure or immediate withdrawal from the course or 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

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 appropriate images and discuss the pathology indicating the **classification of disease, etiology, pathogenesis, signs and symptoms and radiographic appearance**. You will also research and discuss current **treatment and prognosis**. To complete this assignment you should submit a power-point presentation using the given headings. The submission should be a minimum of eight slides. There must be a reference list attached – websites are allowed. 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.