



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences

Program: Medical Radiography

Option:

Course Outline

MRAD 3317 Pathology for Medical Radiography

Start Date: January, 2002

End Date: April, 2002

Course Credits: 3

Term/Level: 3

Total Hours: 48

Total Weeks: 16

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 & P

MRAD 3317 is a Prerequisite for:

Course No.	Course Name
MRAD 4400	Clinical Education

Course Calendar 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.

Course Goals

Level three deals with pathologies of body systems.

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

Evaluation

Final Examination	40%
Midterm #1	25%
Midterm #2	25%
Modules	10%
Optional Assignment	5%
TOTAL	100%

**THE PASS MARK FOR ALL COURSES IN THE
MEDICAL RADIOGRAPHY PROGRAM IS 60%.**

Course Content Verification

I verify that the content of this course outline is current, accurate, and complies with BCIT Policy.

M. Delguelle
Program Head/Chief Instructor

Dec 2001
Date

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

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 RADIOGRAPHERS 2

CRITICAL TASKS

A1 Utilize the request for consultation

- A1.3 Review previous imaging procedures
- A1.4 Correlate clinical information to the prescribed examination
- A1.5 Prioritize work
- A1.6 Plan the radiographic imaging procedure

A2 Prepare room for radiographic imaging procedures

- A2.4 Verify the availability of medical care apparatus and supplies
- A2.5 Obtain accessory imaging apparatus
- A2.6 Select the correct image receptor system (conventional vs digital)

A3 Prepare the patient

- A3.2 Verify clinical information with the patient or clinical staff
- 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 the examination according to patient condition, to minimize patient discomfort

A5 Operate image equipment

- A5.8 Modify exposure factors on the basis of the patient's age, physique and condition

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 Determine whether additional views are required

C4 Perform patient care procedures

- C4.9 Recognize the need for immediate medical attention



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Instructor(s)

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0830-1630 and by appointment

Learning Resources

Required:

1. *Pathology for Medical Radiography* – MRAD 3317
2. *Mosby's Medical and Nursing Dictionary*, C.V. Mosby Co., 1983.

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.

BCIT Policy Information for Students

Assignment Details

Case Study Assignment

You may choose to complete a case study on a pathological condition. To complete this assignment you will research a pathology in the Level 3 curriculum, obtain copies of appropriate films if possible, discuss the pathology indicating the classification of disease, physiological manifestations, 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 35% 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.



Schedule

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**MRAD 3317
Pathology for Medical Radiography**

Week	Number	Lectures	Lab
1	Jan. 3/4	2. Course Introduction	Pathology of the Skeletal System Lecture (continued from Level 2)
2	Jan. 8 Jan. 10/11	1. Bone Neoplasia Intro 2. Bone Neoplasia Intro	Bone Cysts Lecture
3	Jan. 15 Jan. 17/18	1. Osteogenic Sarcoma 2. Metastatic Tumours	Metabolic Disease Lecture
4	Jan. 22 Jan 24/25	1. Kyphosis 2. Paget's Disease	Skeletal System Lab # 1
5	Jan. 29 Jan. 31/Feb 1	1. Endocrine System Intro 2. Respiratory System Intro	Atelectasis Lecture
6	Feb 5 Feb 7/8	1. Emphysema 2. Tuberculosis	Respiratory System Lab # 1
7	Feb 12 Feb 14/15	1. Midterm # 1 2. GI System Intro	Esophageal Atresia Lecture
8	Feb 19 Feb 21/22	1. Gastritis 2. Ca. of the Stomach	GI System Lab # 1
9	Feb 26 Feb 28/Mar 1	1. Small Bowel Tumour 2. Ulcerative Colitis	Intussusception Lecture
10	Mar 5 Mar 7/8	1. Biliary System Intro 2. Urinary System Intro	GI & Biliary System Lab
		SPRING BREAK	
11	Mar 19 Mar 21/22	1. Midterm # 2 2. Glomerulonephritis	Renal Calculi Lecture & Mammary Intro

Week	Number	Lectures	Lab
12	Mar 26 Easter	1. Cardiovascular System Intro 2. Myocardial Infaction (set CD Thursday 13.30 in SW1 4076)	No Lab
13	Apr 2 Apr 4/5	1. Central Nervous System Intro 2. Aneurysms	Cardiovascular & Central Nervous System Lab
14	Apr 9 Apr 11/12	1. Cerebral Tumours 2. Lymphoreticular System Intro	Lymphoreticular System Lab
15		REVIEW WEEK	Additional Labs as needed
16		EXAM WEEK	