



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY
School of Health Sciences
Program: Medical Radiography Technology
Option:

Course Outline

MRAD 3305 Case Studies

Start Date: January, 2001

End Date: April, 2000

Course Credits: 1.5

Term/Level: 3

Total Hours: 24

Total Weeks: 8

Hours/Week: 3

Lecture:

Lab:

Shop:

Seminar: 3

Other:

Prerequisites

Successful completion of Level 2

MRAD 3305 is a Prerequisite for:

Clinical Level 4

Course Calendar Description

The course will examine issues and concerns related to the application of knowledge of anatomy and physiology, positioning, patient care, pathology, radiation protection, equipment, technique and other areas of concern in the solution of real life problems in medical radiography using selected case studies in chest, abdomen, extremity, pelvic, urinary and vertebral radiography. Course readings, writing assignments, seminar discussions and exam questions will be used to develop and evaluate the skills.

In addition, this course is designed to provide the bridge between classroom theory and clinical work through group discussions and presentations and allow the student the opportunity to develop critical thinking and problem-solving skills.

Course Goals

To assist the student to integrate the content from all the program courses taken to this point while focusing on a radiographic case study. The discussions are also intended to develop or improve critical thinking, problem-solving and communication skills.

Evaluation

Final Examination	40%	Optional: Case Study Presentation, 5%
Mid-term Examination	30%	
Participation & Team Work	30%	
TOTAL	100%	

Course Learning Outcomes/Competencies

1. Apply factual knowledge to the solution of problems in medical radiography given a concrete situation.
2. Use critical thinking and problem-solving skills to provide creative and alternative explanation of and/or solutions to selected case studies in medical radiography.
3. Justify recommended action when solving real life issues in medical radiography.
4. Work effectively in a team environment.

The course outcomes and sub-outcomes correspond with the following competency profiles of the CAMRT .

- | | |
|---|---|
| A1 Utilize the request for consultation | D1 Monitor and maintain processing equipment and facilities |
| A2 Prepare the room for radiographic imaging procedures | D2 Monitor radiographic equipment |
| A3 Prepare the patient | D3 Perform quality control tasks |
| A4 Position the patient | E1 Function within legal and ethical guidelines |
| A5 Operate imaging equipment | E2 Demonstrate professional behavior |
| A6 Process images | E3 Demonstrate professional responsibility |
| A7 Critique images and implement corrective measures | |
| A8 Complete post-procedural tasks | |
| | |
| B1 Protect the patient | |
| B2 Protect the technologist | |
| B3 Protect others required to be present during the procedure | |
| B4 Monitor personal radiation exposure | |
| | |
| C1 Ensure patient safety | |
| C2 Establish patient trust and confidence | |
| C3 Attend to the patient's physical comfort and needs | |
| C4 Perform patient care duties | |
| C5 Assist in the administration of contrast media and other drugs | |
| C6 Ensure the confidentiality of patient information | |

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.



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY
School of Health Sciences
Program: Medical Radiography Technology
Option:

MRAD 3305
Case Studies

Instructor(s)

Dori Kaplun, ACR, M.Ed.

Office No.: SW3 - 4084
Office Hrs.: As posted

Office Phone: 432-8743
E-mail Address: dkaplun@bcit.ca

Learning Resources

Required:

Case Studies Manual MRAD 3305

Recommended:

Current Journals

Radiological Texts

Internet sites

Some Internet Health Sites are:

www.onhealth.com
www.webmd.com
www.healthcentral.com
www.planetrx.com
www.adam.com
www.healthatoz.com
www.discoveryhealth.com
www.canadian-health-network.ca/
www.thedailyapple.com
www.health-center.com
www.allhealth.com
www.gomez.com

www.mylifepath.com
www.intelihealth.com
www.healthanswers.com
www.cbs.medscape.com
www.accenthealth.com
www.thedailyapple.com
www.personalmd.com
www.americasdoctor.com
www.drugdigest.com
www.health-center.com
www.drkoop.com

BCIT Policy Information for Students

See manual.

Assignment Details

See manual.



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY
 School of Health Sciences
 Program: Medical Radiography Technology
 Option:

Schedule

MRAD 3305 Case Studies

Week	Set	Date (week of)	Page	Topic
1	A/C	Jan 1	6	<i>Set C</i> Stat Holiday <i>Set A</i> Ankylosing Spondylitis
	B/D	Jan 8	6	<i>Sets B/D</i> Ankylosing Spondylitis
2	A/C	Jan 15	6 14	<i>Set C</i> Ankylosing Spondylitis <i>Set A</i> Darkroom Disease
	B/D	Jan 29	14	<i>Sets B/D</i> Darkroom Disease
3	A/C	Jan 22	14 22	<i>Set C</i> Darkroom Disease <i>Set A</i> Scoliosis
	B/D	Feb 5	22	<i>Sets B/D</i> Scoliosis
4	A/C	Feb 12	22 30	<i>Set C</i> Scoliosis <i>Set A</i> Legge-Perthes
	B/D	Feb 26	30	<i>Sets B/D</i> Legge-Perthes
5	A/C	Feb 19		Midterm (based on first 3 cases)
	B/D	Mar 5		Midterm (based on first 3 cases)
Mar 12-16 Spring Break				
6	A/C	Mar 19	30 38	<i>Set C</i> Legge-Perthes <i>Set A</i> Pulmonary Embolism
	B/D	Mar 26	38	<i>Sets B/D</i> Pulmonary Embolism
7	A/C	Apr 2	38 46	<i>Set C</i> Pulmonary Embolism <i>Set A</i> Foot
	B/D	April 9	46	<i>Set D</i> Foot <i>Set B</i> Good Friday
8	A/C	Apr 16	46	<i>Set C</i> Foot
	B/D	Apr 16	46	<i>Set B</i> Foot