



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences

Program: Medical Radiography Technology

Option:

## Course Outline

**MRAD 3315**  
**Case Studies**

**Start Date:** January, 2002

**End Date:** April, 2002

**Course Credits:** 1.0

**Term/Level:** 3

**Total Hours:** 16

**Total Weeks:** 8

**Hours/Week:** 2

**Lecture:**

**Lab:**

**Shop:**

**Seminar:** 2

**Other:**

### Prerequisites

Successful completion of Level 2

### MRAD 3315 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%	
<b>TOTAL</b>	<u>100%</u>	

### 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              |   |

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### Course Content Verification

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

M. Filippelli  
Program Head/Chief Instructor

January 2002  
Date

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



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### Instructor(s)

Dori Kaplun, ACR, M.Ed.

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### Learning Resources

#### Required:

*Case Studies Manual MRAD 3305*

#### Recommended:

Current Journals

Radiological Texts

Internet sites

Some Internet Health Sites are:

[www.onhealth.com](http://www.onhealth.com)

[www.webmd.com](http://www.webmd.com)

[www.healthcentral.com](http://www.healthcentral.com)

[www.planetrx.com](http://www.planetrx.com)

[www.adam.com](http://www.adam.com)

[www.healthatoz.com](http://www.healthatoz.com)

[www.discoveryhealth.com](http://www.discoveryhealth.com)

[www.canadian-health-network.ca/](http://www.canadian-health-network.ca/)

[www.thedailyapple.com](http://www.thedailyapple.com)

[www.health-center.com](http://www.health-center.com)

[www.allhealth.com](http://www.allhealth.com)

[www.gomez.com](http://www.gomez.com)

[www.mylifepath.com](http://www.mylifepath.com)

[www.intelihealth.com](http://www.intelihealth.com)

[www.healthanswers.com](http://www.healthanswers.com)

[www.cbs.medscape.com](http://www.cbs.medscape.com)

[www.accenthealth.com](http://www.accenthealth.com)

[www.thedailyapple.com](http://www.thedailyapple.com)

[www.personalmd.com](http://www.personalmd.com)

[www.americasdoctor.com](http://www.americasdoctor.com)

[www.drugdigest.com](http://www.drugdigest.com)

[www.health-center.com](http://www.health-center.com)

[www.drkoop.com](http://www.drkoop.com)

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### BCIT Policy Information for Students

See manual.

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### Assignment Details

See manual.

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2002

Week	Set	Date	Topic
1	A	January 7	Polycystic Disease
	C	January 8	
2	B	January 14	Polycystic Disease
	D	January 15	
3	A	January 21	Ankylosing Spondylitis
	C	January 22	
4	B	January 28	Ankylosing Spondylitis
	D	January 29	
5	A	February 4	Darkroom Disease
	C	February 5	
6	B	February 11	Darkroom Disease
	D	February 12	
7	A/B	February 18	Midterm
	C/D	February 19	
8	A	February 25	Scoliosis
	C	February 26	
9	B	March 4	Scoliosis
	D	March 5	
10	A/BC/D	March 11-15	Spring Break
11	A	March 18	Legge Perthes
	C	March 19	
12	B	March 25	Legge Perthes
	D	March 26	
13	A	April 1	Easter Monday
	C	April 2	Pulmonary Embolism
14	B	April 8	Pulmonary Embolism
	D	April 9	
15	A	April 15	Pulmonary Embolism
	B	April 16	Review
16		April 22-26	Exam week