



A POLYTECHNIC INSTITUTION

School of Health Sciences  
Program: Medical Radiography Technology  
Option:

**MRAD 2215  
Case Studies**

<b>Start Date:</b> September, 2004	<b>End Date:</b> December, 2004
<b>Total Hours:</b> 16 <b>Total Weeks:</b> 8	<b>Term/Level:</b> 2 <b>Course Credits:</b> 1
<b>Hours/Week:</b> <b>Seminar:</b> <b>Lab:</b>	<b>Shop:</b> <b>Seminar:</b> <b>Other:</b>
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**Prerequisites**

Course No.	Course Name
Level 1	All Courses

**MRAD 2215 is a Prerequisite for:**

Course No.	Course Name
Level 3	All Courses

■ **Course 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, ethics and other areas of concern in the solution of real life problems in medical radiography using selected case studies. 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 Learning Outcomes/Competencies**

The goals of the course are to assist the student in integrating the content from all the program courses as well as applying research skills while focusing on a radiographic case study. The discussions are also intended to develop or improve critical thinking, teamwork and communication skills.

Upon successful completion, the student will be able to:

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 issues in medical radiography.
4. work effectively in a team environment.

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

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

■ **Assignment Details**

See online cases (<http://online.bcit.ca>).

■ **Evaluation**

Final Examination	40%	Optional assignment worth 2%
Midterm Exam	30%	
Term Work	30%	
participation and research 25%		
teamwork 5%		
TOTAL	<u>100%</u>	

■ **Verification**

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

\_\_\_\_\_  
Dori Kaplun  
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)**

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Office Hrs.:      As posted      E-mail Address:      dori\_kaplun@bcit.ca

■ **Learning Resources**

*Required:*

Case Studies Manual MRAD 3315 – available online

*Recommended:*

Current Journals  
Radiological Texts  
Internet

*Examples of internet sites:*

<a href="http://www.onhealth.com">http://www.onhealth.com</a>	<a href="http://www.americasdoctor.com">http://www.americasdoctor.com</a>	<a href="http://www.surgerydoor.co.uk">http://www.surgerydoor.co.uk</a>
<a href="http://www.webmd.com">http://www.webmd.com</a>	<a href="http://www.drugdigest.com">http://www.drugdigest.com</a>	<a href="http://www.netdokter.com">http://www.netdokter.com</a>
<a href="http://www.healthcentral.com">http://www.healthcentral.com</a>	<a href="http://www.health-center.com">http://www.health-center.com</a>	<a href="http://www.meddean.luc.edu/lumen/index.html">http://www.meddean.luc.edu/lumen/index.html</a>
<a href="http://www.adam.com">http://www.adam.com</a>	<a href="http://www.allhealth.com">http://www.allhealth.com</a>	<a href="http://www.rad.washington.edu/">http://www.rad.washington.edu/</a>
<a href="http://www.healthatoz.com">http://www.healthatoz.com</a>	<a href="http://www.drkoop.com">http://www.drkoop.com</a>	<a href="http://www.vh.org/">http://www.vh.org/</a>
<a href="http://www.discoveryhealth.com">http://www.discoveryhealth.com</a>	<a href="http://www.medbroadcast.com">http://www.medbroadcast.com</a>	<a href="http://www.medscape.com/radiologyhome">http://www.medscape.com/radiologyhome</a>
<a href="http://www.mylifepath.com">http://www.mylifepath.com</a>	<a href="http://www.askdrbob.com">http://www.askdrbob.com</a>	<a href="http://www.personalmd.com">http://www.personalmd.com</a>
<a href="http://www.intelihealth.com">http://www.intelihealth.com</a>	<a href="http://www.nhsdirect.nhs.uk">http://www.nhsdirect.nhs.uk</a>	<a href="http://www.realage.com">http://www.realage.com</a>
<a href="http://www.healthanswers.com">http://www.healthanswers.com</a>	<a href="http://www.medicines.org.uk/">http://www.medicines.org.uk/</a>	<a href="http://www.Adam.com">http://www.Adam.com</a>
<a href="http://www.accenthealth.com">http://www.accenthealth.com</a>		<a href="http://www.canadian-health-network.ca/">http://www.canadian-health-network.ca/</a>

■ **Information for Students**

**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.

See manual.