



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Course Outline Part A

School of Health Sciences

Program: Medical Radiography

Option:

**MRAD 3303**

**Radiographic Technique and Evaluation**

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<b>Hours/Week:</b>	3	<b>Total Hours:</b>	21	<b>Term/Level:</b>	3
<b>Lecture:</b>		<b>Total Weeks:</b>	7	<b>Credits:</b>	1.5
<b>Lab:</b>					
<b>Other:</b>					

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#### Prerequisites

MRAD 3303 is a Prerequisite for:

Course No.	Course Name
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MRAD 2201	
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MRAD 2203	
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Course No.	Course Name
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	Level 4 Clinical
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#### Course Goals

- This course directs students to evaluate the diagnostic acceptability of skull and biliary system radiographs. This is based on anatomy, positioning, exposure factors and processing.

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#### Course Description

A discussion of appropriate technical factors together with the application of imaging theory will occur for each of the appropriate areas.

In the lab situation, students will review and critique, on an individual basis, all aspects of skull radiography. Emphasis will be placed on technical quality and diagnostic acceptability.

During the applied lab, students will evaluate skull radiographs and apply corrective measures and evaluate the appropriateness of the applied techniques.

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#### Evaluation

Final Examination	40%
Midterm	25%
Term Quizzes	20%
Applied Lab	15%
<b>TOTAL</b>	<b>100%</b>

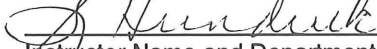
## Course Outcomes and Sub-Outcomes

Upon successful completion of this course the student will be able to:

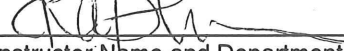
1. Evaluate sample radiographs of basic and specialized views of the human skull for diagnostic acceptability based on:
  - a. inclusion of all required structures
  - b. demonstration of correct positioning
  - c. appropriate density and contrast.
2. Assess main contributing factors to the overall radiographic image quality based on:
  - a. appropriate technique factors
  - b. body habitus of patient involved.
3. Propose possible solutions to poor radiographic quality.
4. Outline the geometric effects on radiographs.
5. Discuss the formulas and relationship of the principles of radiography as they apply to mA, time, KV and distance.

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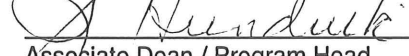
## Course Record

Developed by:   
Instructor Name and Department (signature)

Date: \_\_\_\_\_

Revised by:   
Instructor Name and Department (signature)

Date: Dec 1996

Approved by:   
Associate Dean / Program Head (signature)

Start Date: January 1997



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences

Program: Medical Radiography

Option:

Course Outline **Part B**

**MRAD 3303**

**Radiographic Technique and Evaluation**

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### Effective Date

January, 1997

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### Instructor(s)

Dori Kaplun

Office No.: SW3-4084

Phone: Local 5750

Home 980-8173

Office Hrs.: Tuesday, Wednesday, Thursday

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### Text(s) and Equipment

Required:

Ballinger, Philip W. Merrill's Atlas of Radiographic Positions and Radiographic Procedures, Volume 2, 6th Edition.

Recommended:

Notes from MRAD 3301, 1103, 2203 and 3303.

Cullinan, Angeline M. Producing Quality Radiographs, 1987.

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### Course Notes (Policies and Procedures)

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### Assignment Details

During the applied lab, students are to evaluate the selected radiograph, apply corrective measures and produce a diagnostic radiograph.



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences

Program: Medical Radiography

Option:

Schedule

**MRAD 3303**

**Radiographic Technique and Evaluation**

Sets A & C	LECTURE/LAB (WEDNESDAY) MRAD 3303	Sets B & D
Jan. 8	Review	Jan. 22
Jan. 15	Basic Skull	Jan. 29
Feb. 5	Basic Skull and Sinuses	Feb. 19
Feb. 12	Mandible <b>MIDTERM</b>	Feb. 26
Mar. 5	Review Mandible, TM Joints, Zygomatic Arches	Mar. 19
Apr. 2	Nasal Bones, Facial Bones	Mar. 26
Apr. 9	Orbits, Sella Turcica	Apr. 16
Apr. 21-25	<b>EXAM WEEK</b>	Apr. 21-25

Sets A & C	APPLIED LAB (TUESDAY) MRAD 3303	Sets B & D
Jan. 7	Introduction	Jan. 21
Jan. 14	Basic Skull	Jan. 28
Feb. 4	Basic Skull and Sinuses	Feb. 18
Feb. 11	Mandible	Feb. 25
Mar. 4	TM Joints, Zygomatic Arches	Mar. 18
Apr. 1	Nasal Bones, Facial Bones	Mar. 25
Apr. 8	Orbits, Sella	Apr. 15
Apr. 21-25	<b>EXAM WEEK</b>	Apr. 21-25

Mar. 10-14	<b>SPRING BREAK</b>	Mar. 10-14
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