



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Operating Unit: Health Sciences

Program: Medical Radiography

Option:

Course Outline

MRAD 3304

Radiographic Anatomy and Physiology

Start Date: January 4, 2000

End Date: April, 2000

Course Credits:

Term/Level: 3

Total Hours: 45

Total Weeks: 16

Hours/Week:	Lecture: 1	Lab: 2	Shop:	Seminar:	Other:
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Prerequisites

MRAD 3304 is a Prerequisite for:

Course No.	Course Name
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MRAD 2204

Course No.	Course Name
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Clinical Level 4

Course Calendar Description

This course continues on from MRAD 2204. The body organs, glands, vessels and nerves are studied according to region. Throughout the course, emphasis is surface anatomy, the radiographic appearance of structures, and the details of structure and function that are pertinent to radiographic procedures. Basic cross-sectional anatomy of the head, thorax, abdomen and spine will also be covered this term.

Course Goals

- To provide students knowledge of basic radiographic cross-sectional anatomy.
- To provide students a thorough overview of the lymphatic system, central nervous system, and cardiovascular system.

Evaluation

Quiz x 3	10%
Midterm	30%
Assignment	15%
Final Exam	45%
TOTAL	100%

Course Learning Outcomes/Competencies

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

Competency Profile

1. A₇ Identify and describe the structure and function of the cardiovascular system.
2. A₇ Identify and describe the structure and function of the central nervous system.
3. A₇ Identify and describe the structure and function of the lymphatic system.
4. A₄, A₇ Identify anatomical structures of cardiovascular, nervous and lymphatic systems as seen radiographically.
5. A₇, B₁ Identify human anatomical structures as shown on cross-sectional radiographs, including:
 - a. head
 - b. chest
 - c. abdomen and pelvis
 - d. spine
6. A₄, A₇ Correlate cross-sectional anatomy seen on an image to the slice location in the body area.

The course outcomes and sub-outcomes align with the following Competency Profiles of the CAMRT:

- A_{4.6} Position the patient to demonstrate the required anatomical structures.
- A_{7.3} Identify anatomy and patient position on the image.
- A_{7.4} Verify that required structures are demonstrated.
- B_{1.6} Collimate only to the area of interest to minimize patient dose.

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.



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Instructor(s)

Lois Doody

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Learning Resources

Required:

- Radiographic Skeletal Anatomy, Johnson & Kennedy.
- Principles of Anatomy and Physiology, Tortora & Anagnostakos.

Recommended:

(As listed for CAMRT exam validation)

- The Anatomy Coloring Book, Kapit & Elson.
 - Basic Physiology and Anatomy, Chafee & Lytle.
 - Cross-sectional texts.
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Assignment Details

Cross-sectional Anatomy

A group of 2–3 students will be responsible for presenting an area of cross-sectional anatomy to the class.

The presentation will consist of:

- identification of structures
- relationship of surrounding structures
- discussion of corresponding surface landmarks
- discussion of cross-sectional levels

The presentation will be evaluated and feedback provided by peers and instructor.