Course Outline

BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Operating Unit: Health Sciences
Program: Medical Radiography
Option:

MRAD 3314
Radiographic Anatomy and Physiology

Start Date: January, 2002 **End Date:** April, 2002

Course Credits: 1.5 **Term/Level:** 3

Total Hours: 42
Total Weeks: 16

Hours/Week: 3 **Lecture:** 1 **Lab:** 2 **Shop:** **Seminar:** **Other:**

Prerequisites

Course No.	Course Name
MRAD 2214	Radiographic Anatomy & Physiology 2

MRAD 3314 is a Prerequisite for:

Course No.	Course Name

Course Calendar Description

This course continues on from MRAD 2214 and begins with the skull. Skull topics include surface landmarks, radiographic planes and lines, and bony anatomy. The cranial and facial bones will be covered in detail. 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 a detailed outline of the skull anatomy
- To provide students a thorough overview of the lymphatic system, central nervous system, and cardiovascular system.
- To provide students knowledge of basic radiographic cross-sectional anatomy.

Evaluation

Quiz X 6	25%
Midterm	30%
Web Site Assignment	5%
Final Exam	40%
	100%

Course Learning Outcomes/Competencies

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

Competency Profile:

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

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

Position the patient to demonstrate the required anatomical structures	A4.6
Identify anatomy and patient position on the image.	A7.3
Verify that required structures are demonstrated.	A7.4
Collimate only to the area of interest to minimize patient dose.	B1.6

Course Content Verification

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

M. Felippelli — Program Head/Chief Instructor

Dec 2001 — Date

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

Instructor:

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***Office Hours*: Mon – Thurs 8:30 – 4:30** **E-mail Address: ldoody@bcit.ca**

Learning Resources

Required:

Radiographic Skeletal Anatomy, Glenda Bryan
Principles of Anatomy and Physiology, Tortora & Grabowski

Recommended:

(As listed for CAMRT Exam validation)

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

WEB-SITE ASSIGNMENT DETAILS

- a series of cross-sectional images will be posted to a web site as the class covers each required body area
- each student will be required to label pertinent structures on the posted images and submit for marks
- further details will be available to you in the near future