



Course Outline

A POLYTECHNIC INSTITUTION
BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences
Program: Medical Radiography Technology
Option:

MRAD 3314
Radiographic Anatomy and Physiology

Start Date: January, 2003

End Date: April, 2003

Course Credits: 1.5

Term/Level: 3

Total Hours: 44

Total Weeks: 16

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

Prerequisites

MRAD 2214 Radiographic Anatomy & Physiology

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, 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 on 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

Quizzes X 7	25%	60% is the required pass mark in this course
Midterm Examination	30%	
Web Site Assignment	5%	
Final Examination	40%	
TOTAL	100%	

▪ **Course Learning Outcomes/Competencies**

Upon successful completion the student will be able to:

(Each of the following statements are identified with the relevant Critical Task for Competency (CT) according to the CAMRT publication January 1997)

	Learning Outcome	CT
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: <ul style="list-style-type: none">➤ Head➤ Chest➤ Abdomen and pelvis➤ Spine	A7, B1
6	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: Position the patient to demonstrate the required anatomical structures Identify anatomy and patient position on the image Verify that required structures are demonstrated Collimate only to the area of interest to minimize patient dose	A4.6 A7.3 A7.4 B1.6

▪ **Verification**

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

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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▪ **Learning Resources**

Required:

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

Material to be distributed as required

Recommended:

The Anatomy Coloring Book, Kapit & Elson

Basic Physiology and Anatomy, Chafee & Lytle

Cross-sectional anatomy texts

Current Journals, News articles

Internet Site references:

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 discussed in class

▪ **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.