



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, 2006

End Date: April, 2006

Course Credits: 3

Term/Level: 3

Total Hours: 45

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, pelvis and spine will also be covered this term.

▪ **Course Goals**

- To provide students a detailed outline of the skull anatomy.
- To provide students an overview of the central nervous system, and cardiovascular system.
- To provide students the knowledge of basic radiographic cross-sectional anatomy.

▪ **Evaluation**

Quizzes X 6	20%	60% is the required pass mark in this course
Midterm Examinations X 2	30%	
Cross-Section Assignment	10%	
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 of the skull	A7
4	Identify anatomical structures of cardiovascular and nervous 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
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: <ul style="list-style-type: none"> 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.

_____ Date

Authoring Instructor

I verify that this course outline has been reviewed.

_____ Date

Program Head/Chief Instructor

I verify that this course outline complies with BCIT policy.

_____ Date

Dean/Associate Dean

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

- **Information for Students**

(Information below can be adapted and supplemented as necessary)

The following statements are in accordance with the BCIT Student Regulations Policy 5002. To review the full policy, please refer to <http://www.bcit.ca/~presoff/5002.pdf>.

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.

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.

Attendance/Illness: In case of illness or other unavoidable cause of absence, the student must communicate as soon as possible with his/her instructor or Program Head or Chief Instructor, indicating the reason for the absence. Prolonged illness of three or more consecutive days must have a BCIT medical certificate sent to the department. Excessive absence may result in failure or immediate withdrawal from the course or program.

Academic Misconduct: Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances are prohibited and will be handled in accordance with the 'Violations of Standards of Conduct' section of Policy 5002.