



A POLYTECHNIC INSTITUTION

School of Health Sciences
Program: Medical Radiology
Option:

MRAD 1104
Radiographic Anatomy and Physiology

Start Date: January, 2004

End Date: April 30, 2004

Total Hours: 39 **Total Weeks:** 14

Term/Level: 1 **Course Credits:** 3

Hours/Week: 3 **Lecture:** 1 **Lab:** 2

Shop: **Seminar:** **Other:**

Prerequisites

MRAD 1104 is a Prerequisite for:

Course No. Course Name

Course No. Course Name

Biology

- MRAD 1108 Clinical Education 1
- MRAD 2210 Clinical Education 2
- MRAD 2214 Radiographic Anatomy
- MRAD2216 Radiographic Procedures 2

■ **Course Description**

During Level 1 of this course the lecture and laboratory material will cover the entire skeleton (exception of the skull) and the basic structures of the chest and abdomen. Emphasis both in lecture and lab will be placed on application to radiography, nomenclature, surface anatomy, specific bony structures, articulations and radiographic appearance of structures.

■ **Detailed Course Description**

The goal of this course is to provide the student with an in-depth understanding of the skeleton and basic structures of the abdomen and thorax. Emphasis is placed on radiography, nomenclature, surface anatomy, specific bony structures, articulations and radiographic appearance structures.

■ **Evaluation**

Weekly Quizzes	20%
Midterm Exam	40%
Final Exam	40%
TOTAL	<u>100%</u>

Comments: The pass mark for this course is 60%

Each of the following statements is identified with the relevant Critical Task (CT) for Competency according to the C.A.M.R.T. publication, January 1997.

■ **Course Learning Outcomes/Competencies**

Critical Task

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

- | | |
|---|-------|
| 1. describe the structure, function and relative positions of all the bones (except the skull) which comprise the human skeleton. | CT A4 |
| 2. describe the structure, function and relative positions of all the contents of the chest and abdominal cavities. | CT A7 |
| 3. locate all bony and non-bony structures using surface anatomy. | CT A4 |
| 4. evaluate radiographs for variations in organ locations based on <i>body type</i> and <i>position</i> . | CT A7 |
| 5. identify on radiographs all parts of the bony skeleton (except the skull). | CT A7 |
| 6. identify on radiographs selected structures within the abdomen and thorax. | CT A7 |

■ **Verification**

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

M. DiStoppelli
Authoring Instructor

Jan 5/04
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.

John H. Eves
Dean/Associate Dean

January 5 2004
Date

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

■ Instructor(s)

Mary Filippelli

SW3-4080

Office Hrs.:

Office Phone: 6918

E-mail Address:

■ Learning Resources

Required:

1. *Mosby's Pocket Dictionary of Medicine, Nursing and Allied Health.*
2. C.A.M.R.T. *Curriculum Guide for Radiography Programs* (to be given out by program).
3. *Radiographic Skeletal Anatomy*, Bryan.
4. *Radiographic Anatomy and Physiology*, lecture notes.

Recommended:

as listed for C.A.M.R.T. exam validation)

1. *Principles of Anatomy and Physiology*, Tortora and Grabowski.
2. *Pocket Atlas of Radiographic Anatomy*, Moeller & Reif

■ Information for Students

(Information below can be adapted and supplemented as necessary.)

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.

Schedule

Week Number	Lecture	Laboratory
1	Finger/thumb/hand/wrist	Finger/thumb/hand/wrist
2	Forearm/elbow/humerus	Forearm/elbow/humerus
3	Clavicle/scapula/shoulder	Clavicle/scapula/shoulder
4	Foot/ankle	Foot/ankle
5	Tibia/fibula/knee	Tibia/fibula/knee
6	Hip/femur/pelvis/SI joints	Tibia/fibula/knee
7	MIDTERM	MIDTERM
8	Introduction to Bodily Habitus	Introduction to Bodily Habitus
9	Chest	Chest
10	Abdomen	Abdomen
11	SPRING BREAK	SPRING BREAK
12	Cervical and thoracic spine	Cervical and thoracic spine
13	Lumbar/sacrum/coccyx	Lumbar/sacrum/coccyx
14	Ribs/sternum/trachea/pharynx/larynx	Ribs/sternum/trachea/pharynx/larynx
15	FINAL EXAM WEEK	FINAL EXAM WEEK