



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences  
Program: Medical Radiology  
Option:

**MRAD 1104**  
**Radiographic Anatomy and Physiology**

**Start Date:** January, 2002

**End Date:**

**Course Credits:** 3.5

**Term/Level:** 1

**Total Hours:** 48

**Total Weeks:** 16

**Hours/Week:** 3

**Lecture:** 1

**Lab:** 2

**Shop:**

**Seminar:**

**Other:**

**Prerequisites**

Course No.	Course Name
Biology	Grade 11 & 12

**MRAD 1104 is a Prerequisite for:**

Course No.	Course Name
1108	Clinical Education 1
2214	Radiographic Anatomy
2210	Clinical Education 2

**Course Calendar Description**

During Level I 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.

**Course Goals**

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	15%
Mid Term exams	
Lecture	20%
Lab	20%
Final Exam	
Lecture/lab	45%
<b>TOTAL</b>	<b>100%</b>

Note: The pass mark for this course is 60%.

Each of the following statements are 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

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### Course Content Verification

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

M. Sippelli  
Program Head/Chief Instructor

January 2002  
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)

Mary Filippelli

Office No.: SW3-4086  
Office Hrs.:

Office Phone: 6918  
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### Learning Resources

#### Required:

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

#### Recommended:

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

1. *Basic Physiology and Anatomy*, Chaffee and Lytle.
  2. *Atlas of Human Cross-Sectional Anatomy*, Cahill and Orland.
  3. *The Anatomy Coloring Book*, Kapit and Elson.
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### BCIT Policy Information for Students

Refer to: BCIT Student Policies ([www.bcit.ca](http://www.bcit.ca))

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### Assignment Details



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Week Number	Lecture	Laboratory
1	No classes	
2	Finger/thumb/hand/wrist	Finger/thumb/hand/wrist
3	Forearm/elbow/humerus	Forearm/elbow/humerus
4	Clavicle/scapula/shoulder	Clavicle/scapula/shoulder
5	Foot/ankle	Foot/ankle
6	Tibia/fibula/knee	Tibia/fibula/knee
7	Hip/femur/pelvis/SI joints	Tibia/fibula/knee
8	MIDTERM	MIDTERM
9	Introduction to Bodily Habitus	Introduction to Bodily Habitus
10	Chest	Chest
11	SPRING BREAK	SPRING BREAK
12	Abdomen	Abdomen
13	Cervical and thoracic spine	Cervical and thoracic spine
14	Lumbar/sacrum/coccyx	Lumbar/sacrum/coccyx
15	Ribs/sternum/trachea/pharynx/larynx	Ribs/sternum/trachea/pharynx/larynx
16	FINAL EXAM WEEK	FINAL EXAM WEEK