

	<p style="text-align: center;">School of Health & Human Services Medical Radiography Technology</p> <p>Course Name: Relational Anatomy and Physiology</p> <p>Course Number: MRAD 125</p>
---	---

COURSE OUTLINE

The Approved Course Description is available on the web:

<http://camosun.ca/learn/calendar/current/web/mrad.html#MRAD125>

Please note:

- *This outline will be electronically stored for five (5) years only. It is strongly recommended that students keep this outline for their records.*
- *This course is only open to students in the Medical Radiography program.*

Introduction:

This course is the second of three consecutive courses examining normal human structure and function. It is available on-line after completion of the first clinical importance. During this course, the examination of the abdominal cavity and contents will be continued. The pancreas, biliary and genitourinary systems are examined and related to adjacent structures. Emphasis is placed on the gross anatomy, location and anatomical relationships among component organs within the abdomino-pelvic cavity. These areas of study are then integrated into a sectional imaging approach, viewing parts of the body in all three fundamental body planes. Conventional anatomic presentations are supplemented by images obtained from a variety of diagnostic medical imaging technologies. Physiology is presented where it is relevant to, and contributes to, an understanding of structure and the relationships among adjacent organs, fundamental body processes, functional diagnostic imaging procedures, and important clinical considerations.

Prerequisites: A minimum of "C+" in MRAD 105, MRAD 115, MRAD 124; and "COM" in

MRAD 120

Students must achieve a minimum of a C+ (65%) to use this course as a prerequisite. Refer to the Camosun Calendar for detailed information about course prerequisites.

1. Instructor Information

Instructor: Abeer Mansour, MD, PhD

Email: MansourA@camosun.bc.ca

2. Intended Learning Outcomes/Competencies

Upon successful completion, the student will be able to:

1. Identify the pancreas, liver, gallbladder and genitourinary system and describe their relationships to adjacent structures. (G2.1, G7.1, I2.1, I3.1, I4.1, J2.1, K 1.1)
2. Relate structure to physiological function of the pancreas, liver, gallbladder and genitourinary system. (G2.1, G7.1, I1.1, I2.1, I3.1, I4.1, J2.1, K 1.1)
3. Apply anatomical and physiological principles to the practice of radiographic technology.(G2.1, G7.1, I2.1, I3.1, I4.1, J2.1)
4. Apply knowledge of anatomy and physiology in the identification and interpretation of conventional X-ray images and CT scans in different body planes (G2.1, G7.1, I2.1, I3.1, I4.1, J2.1, K1.1)
5. Identify the level, orientation, and structures displayed in sectional images of the abdomen and pelvis in transverse and selected sagittal and coronal planes. (G2.1, G7.1, I2.1, I3.1, I4.1, J2.1, K1.1)

[CAMRT Medical Radiography Competency Profile](#)

3. Learning Resources

Required Textbooks:

Marieb, E.N. **Essentials of Human Anatomy and Physiology**, 10th Edition, (Benjamin Cummings)

Marieb, E.N. **Anatomy and Physiology Coloring Workbook**, 9th Edition, 2008 (Benjamin Cummings)

Applegate, E.J. **The Sectional Anatomy Learning System: Concepts**, 3rd Edition (Saunders)

Applegate, E.J. **The Sectional Anatomy Learning System: Applications**, 3rd Edition (Saunders)

Drake, R.L., Vogl, W., Mitchell, A., **Gray's Anatomy for Students**, Current edition (Elsevier, Churchill Livingstone)

Recommended (on reserve in library):

Basic Anatomy and Physiology

Tortora, G.J., **Principles of Anatomy and Physiology**, Current edition (Harper and Row)

Martini, F.H., Timmons, M.J., Tallitsch, R.B. **Human Anatomy**, Current edition (Prentice Hall)

Advanced Anatomy

Moore, K.L., **Clinically Oriented Anatomy**, Current edition (Lippincott, Williams & Wilkins)

Warwick, R., Williams, P.L., Eds., **Gray's Anatomy**, Current edition (Longman)

Advanced Physiology

Berne, R.M., Levy M.N., Eds., **Physiology**, Current edition (Mosby)

Boron, W.F., Boulpaep, E.L., Eds., **Medical Physiology**, Current edition (W.B. Saunders)

Histology

Young P., Heath J.W., Wheater's **Functional Histology**, Current edition (Elsevier, Churchill Livingstone)

Imaging and Sectional Anatomy

Weir, J. Abrahams, P.H., **Imaging Atlas of Human Anatomy**, Current edition (Mosby)

Hofer, M., CT Teaching Manual, Current edition (Thieme Kelley, L.L., Petersen, C.M.), **Sectional Anatomy for Imaging professionals** (Mosby)

Madden, M.E., **Introduction to Sectional Anatomy**, Current edition (Lippincott, Wilkins & Williams)

Desire-to-Learn (D2L):

The course will be administered via a D2L site. This site can be accessed from the Camosun homepage via online services and then online courses. Lecture notes will be provided using Power Point and a version will be posted on D2L. Lecture notes must not be considered your sole source of information. They are merely a summary of the main points and you will need to write down additional information in each lecture. In addition, not all details can be covered in a lecture, and you will be required to refer to textbook material that is not discussed specifically in class.

4. Student Assessment

6 Quizzes (5% each)	30 %
Midterm Exam	30 %
Final Exam	40 %
TOTAL	100 %

Students must achieve a C+ (65 %) to use this course as a prerequisite.

Note1: Each of the 6 quizzes will be out of 30 marks and opened on D2L over on Mondays for 24 hours period. Once you have decided to take the quiz, you will have only one attempt and a time limit to complete.

5. Grading System

This course will use the Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+	Minimum level of achievement to use the course as a prerequisite.	3
60-64	C		2
50-59	D	Minimum level of achievement for which credit is granted.	1
0-49	F	Minimum level has not been achieved.	0

Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy E-1.5 at camosun.ca for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or
IP	<i>In progress:</i> A temporary grade assigned for courses that, due to design may require a further enrollment in the same course. No more than two IP grades will be assigned for the same course. <i>(For these courses a final grade will be assigned to either the 3rd course attempt or at the point of</i>
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite,

6. Recommended Materials or Services to Assist Students Throughout the Course

CONDUCT POLICIES

It is the student's responsibility to become familiar with the content of these policies. The policies are available in each School Administration Office, Registration, and on the College web site in the Policy Section.

[Academic Policies and Procedures](#)
[Student Conduct Policy](#)

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Registrar's Office or the College web site at

<http://www.camosun.bc.ca>

MRT PROFESSIONAL CODE OF ETHICS

Camosun College Medical Radiography Technology students are expected to abide by the Canadian Association of Medical Radiation Technologist (CAMRT) Code of Ethics inasmuch as it applies to them in the learning and clinical environments. This information is available on the CAMRT website at:

[CAMRT Code of Ethics](#)

MRT Department Policies & Procedures

Camosun College Medical Radiography Technology students are responsible for knowing all of the MRT Department Policies and must abide by them, including dress codes & lab safety procedures.

<http://camosun.ca/learn/programs/mrt/handbook.pdf>

7. General Information

Please be familiar with the policies and procedures as outlined in the MRT Student Handbook. Plagiarism will not be tolerated in any form and will result in a “0” mark for the assignment.

Do not book trips until the exam schedule is finalized.

Academic Integrity:

Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances are prohibited and will be handled in accordance with Camosun’s Policies

The Medical Radiography Technology program is committed to promoting competence, professionalism and integrity in our students and developing their core skills to succeed throughout their academic programs and in their careers. The purpose of Academic Honesty Guidelines is to provide clear expectations of appropriate academic conduct and to establish processes for discipline in appropriate circumstances. It is the student’s responsibility to become familiar with the content and the consequences of academic dishonesty. Before you begin your assignments, review the Academic Policies on the Camosun College website:

<http://camosun.ca/learn/becoming/policies.html>



These materials were originally created by BCIT. Adaptations have been made to reflect Camosun College policies. Permission to use these materials has been granted by 