

COURSE OUTLINE

The Approved Course Description is available on the web: http://camosun.ca/learn/calendar/current/web/mrad.html

Please note:

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

Introduction:

This course parallels and emphasizes topics presented in Relational Anatomy and Physiology 3.

The course content will be covered in a laboratory environment using digital patient images, and anatomical models. The content will provide an in-depth focus of the cardiovascular, nervous (CNS) and respiratory systems, cranium, neck and thorax. Patient images will mainly focus on sectional presentation. In addition, sectional images of the spine, abdomen and pelvis will be included.

This course will focus on the understanding of sectional images as represented in various body planes. The students will study the key anatomical structures and features featured on sectional anatomy as used by several disciplines such as Computed Tomography Scanning and Magnetic Resonance.

This course also has significant importance for the understanding and success of several courses such as Radiographic Procedures 3, Pathology 2 and CT Clinical Application.

Prerequisites: A minimum of "C+" in MRAD 105, MRAD 125

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

1. Instructor Information

(a)	Instructor:	Brent Mekelburg B.Sc. RT (R)(MR)
(b)	Office Hours:	Wed, Thur 1230 – 1330 or by appointment
(C)	Location:	WT212D
(d)	Phone:	250-370 - 3992
(e)	Email:	mekelburgb@camosun.ca
(f)	Website:	http://online.camosun.ca/

2. Intended Learning Outcomes/Competencies

Letters and numbers following certain learning outcomes indicate the specific competencies covered from the CAMRT Medical Radiography Competency Profile:

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

1. Identify anatomical landmarks of the cranium, central nervous and cardiovascular systems using laboratory models. (F34.1, F35.1, F36.1, F37.1, F38.1, F39.1, F40.1, F41.1, K1.1)

2. Identify anatomical structures of the entire cranium, central nervous and cardiovascular body systems on patient images. (F34.1, F35.1, F36.1, F37.1, F38.1, F39.1, F40.1, F41.1, K1.1)

3. Describe the relationship of structures of the head, neck, spine, thorax, abdomen, pelvis and major joints. (F34.1, F35.1, F36.1, F37.1, F38.1, F39.1, F40.1, F41.1, H2.1, H3.1, K1.1)

4. Identify digestive, urinary, reproductive (male/female), respiratory, CNS and cardiovascular structures on patient sectional images. (G2.1, G3.1, G4.1, G5.1, G6.1, G7.1 H2.1, H3.1, I2.1, I3.1, I4.1, J2.1, K1.1)

5. Identify major joints, vertebra and skull structures on patient sectional images. (F10.1, F19.1, F22.1, F25.1, F26.1, F27.1, F34.1, F35.1, F36.1, F37.1, F38.1, F39.1, F40.1, F41.1, K1.1)

CAMRT Medical Radiography Competency Profile

3. Learning Resources

Required Textbooks:

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

Ballinger, P.W., & Frank, E.D. (2012). Merrill's Atlas of Radiographic Positions and Radiologic Procedures, Volumes 1, 2 & 3 (12th ed.). Mosby: Elsevier.

Optional Textbooks:

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

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

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

Desire-to-Learn (D2L):

D2L – the Camosun College online learning portal contains the remainder of the learning materials for this course. Students are expected to familiarize themselves with the online learning environment and all the features it has to make this course experience enriching. Log on at <u>https://online.camosun.ca/</u> to access these materials.

D2L materials *must not* be considered your sole source of information! They merely summarize the main points and provide direction for your learning experiences. You may need to write down additional information in each lecture. Additionally, 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.

Other Materials:

Additional resources may include, but are not limited to: lecture notes, PowerPoint slides, Textbook Companion Workbooks, Laboratory Manuals, and hyperlinks. You may prefer to download lectures notes ahead of time (when available) and then write your notes directly onto copies of the slides.

4. Student Evaluation

2 Mid Terms	50 %
Non-cumulative Final Exam	30 %
Professionalism	20 %
TOTAL	100 %

In emergency circumstances, a student may arrange to write a final examination before or after the scheduled time if the student would otherwise be unable to complete the program or course. Exceptions due to emergency circumstances, such as unavoidable employment commitments, health problems, or unavoidable family crises, require the approval of the instructor. Holidays or scheduled flights are not considered to be emergencies. The student may be required to provide verification of the emergency circumstance. (Camosun Academic Policy <u>http://camosun.ca/learn/calendar/current/pdf/academic-policies.pdf</u>)

Mid-term exams are written in class via D2L and are CLOSED BOOK!

The first midterm covers module 1. The second mid-term covers modules 2&3 The Final Exam covers module 4 ONLY.

The final exam will be scheduled by the registrar and is *non-cumulative*.

In this course, there is a 20% mark for professionalism. Behaviors that contribute to this mark include, but are not limited to: attendance, punctuality, respect, accountability, communication, courtesy, responsibility, integrity and exercising sound judgment exemplary of an MRT.

Attendance

You are expected to attend all classes, and be on time. It is your responsibility to acquire all information given during a missed class, including notes, hand-outs, assignments, changed exam dates, etc. Missed exams or quizzes cannot be made up except in case of documented illness (doctor's note required).

In case of illness or other unavoidable cause of absence, the student must communicate as soon as possible with his/her instructor indicating the reason for the absence. Prolonged illness of three or more consecutive days must have a medical certificate sent to the department. 5. Course Content and Schedule: Thursdays 14:30-16:20

Week	Week of	Module	Exams
1	Jan 9	1.Skull	
2	Jan 16	1.Skull	
3	Jan 23	1.Skull	
4	Jan 30	1.Skull	
5	Feb 6	MODULE 1	MID-TERM EXAM 1
6	Feb 13	FAMILY DAY	READING BREAK
7	Feb 20	2. Nervous System	
8	Feb 27	2.Nervous System	
9	Mar 6	3. Circulatory System	
10	Mar 13	3. Circulatory System	
11	Mar 20	MODULES 2&3	MID-TERM EXAM 2
12	Mar 27	4. X-Sectional Anatomy-Head	
13	Apr 3	4. X-Sectional Anatomy-Neck	
14	Apr 10	4. X-Sectional Anatomy-Thorax	
15	Apr 17	4. X-Sectional Anatomy-Abdomen	
16	Apr 24	4. X-Sectional Anatomy-Pelvis	
17	May1	4. X-Sectional Anatomy-Upper Extremities	
18	May 8	4. X-Sectional Anatomy-Lower Extremities	
19	May 15	4. X-Sectional Anatomy-Review	
20	May 22	VICTORIA DAY MODULE 4 ONLY	FINAL EXAM

Note: This schedule is tentative and subject to change if deemed necessary by the instructor.

Exam Period May 20-23 (scheduled by registrar) - check CAMLINK.

Do not book trips until the final exam schedule is posted by the registrar.

6. Grading System

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

Standard Grading System (GPA)

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	
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. (For these courses a final grade will be assigned to either the 3 rd course attempt or	
cw	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after	

7. Recommended Materials or Services to Assist Students to Succeed 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 insomuch 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

8. GENERAL INFORMATION

Suggested Study Time/Study Habits

- Successful students will probably spend 4 6 hours outside of class per week studying the content for this course to achieve full marks.
- Map out a homework schedule; include time for reading and learning activities.
- It is valuable to review your notes within 24 hours following each class to help retain the information.
- Study groups are a highly effective way of learning for many students.
- Desire-to-Learn (D2L):
- D2L the Camosun College online learning portal contains the remainder of the learning materials for this course. Students are expected to familiarize themselves with the online learning environment and all the features it has to make this course experience enriching. Login at https://online.camosun.ca/ to access these materials.
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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: <u>http://camosun.ca/learn/becoming/policies.html</u>