

MRAD 117 Introduction to Radiographic Procedures
Fall 2020

COURSE OUTLINE

The course description is available on the web:
<http://camosun.ca/learn/calendar/current/web/mrad.html#mrad117>

Camosun College will continue to follow the guidance of the Provincial Health Officer, the B.C. Government and WorkSafeBC, and as such may revise the delivery of courses. Courses with an approved face-to-face component may need to move to online or remote delivery if necessary.

The COVID-19 pandemic has presented many challenges, and Camosun College is committed to helping you safely complete your education. Following guidelines from the Provincial Health Officer, WorkSafeBC and the BC Government to ensure the health and wellbeing of students and employees, Camosun College is providing you with every possible protection to keep you safe including COVID Training for students and employees, health checks, infection control protocols including sanitization of spaces, PPE and ensuring physical distancing. Please refer to: <http://camosun.ca/covid19/faq/covid-faqs-students.html>

However, if you're at all uncomfortable being on campus, please share your concerns with your Instructor and if needed, alternatives will be discussed.

Ω Please note: This outline will not be kept indefinitely. Students are recommended to keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

- (a) **Instructor** Brent McMillen, Sarah Erdelyi and Hong Gerow
- (b) **Office hours** by appointment
- (c) **Location** CHW 317 or virtual
- (d) **Phone** TBD **Alternative:** N/A
- (e) **E-mail** mcmillenb@camosun.ca , erdelyis@camosun.ca , gerowh@camosun.ca
- (f) **Website** <http://online.camosun.ca/>

2. Intended Learning Outcomes

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

- a) demonstrate correctly positioned radiographic projections on phantoms and laboratory partners for routine radiographic examinations of the body.

- b) apply the components of a radiographic examination (interpret the request, plan the examination, establish the patient relationship, execute the procedure, and conclude the examination) to low complexity patient scenarios encountered during the first clinical practicum experience.
- c) discuss the implications of varied patient health conditions (physical and emotional) on routine examinations of the body and the necessity for the Medical Radiation Technologist to appropriately respond.
- d) apply and convey anatomic knowledge, basic radiographic principles, patient care considerations, and best practices when analyzing images for diagnostic acceptability.

3. Required Materials

- a) Required

Bontrager, K.L., & Lampignano, J.P. (2018). *Textbook of Radiographic Positioning and Related Anatomy (9th ed.)*. St. Louis, Missouri: Elsevier Mosby.

McQuillen Martensen, K. (2015/2020). *Radiographic Image Analysis (4th ed. or 5th ed.)*. St. Louis, Missouri: Elsevier Saunders.

Bontrager, K.L., Lampignano, J.P., & Kendrick, L.E. (2018). *Workbook: Textbook of Radiographic Positioning and Related Anatomy 9th ed.*. St. Louis, Missouri: Elsevier Mosby.

Bontrager, K.L., & Lampignano, J.P. (2018). *Bontrager's Handbook of Radiographic Positioning and Techniques (9th ed.)*. St. Louis, Missouri: Elsevier Mosby.

Optional Textbooks: available for purchase or on reserve in library

McQuillen Martensen, K. (2015/2020). *Workbook for Radiographic Image Analysis (4th ed. or 5th ed.)*. St. Louis, Missouri: Elsevier Saunders.

Long, B.W., Rollins, J.H., & Smith, B.J. (2019). *Merrill's Atlas Of Radiographic Positioning & Procedures, Volumes 1,2,3 (14th ed.)*. St. Louis, Missouri: Elsevier Mosby.

- b) Other

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 <https://online.camosun.ca/> to access these materials.

Additional resources may include, but are not limited to: lecture notes, PowerPoint slides, Textbook companion workbooks, Laboratory Manuals, Ziltron 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.

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.

4. Course Content and Schedule

Refer to Course page on D2L for details

Lecture Days/Times & Room Number:

Online – Refer to D2L schedule

Lab Days/Times & Room Number (*except Critique* – please see separate schedule in D2L):

XRAY LABS CHW 134/135/137

8 hours each week based on designated set

Even numbered weeks (2, 4, 6, 10, 12, 14)

- Group 1 (Sections A and B) dedicated for on-campus lab activities
- Group 2 (Sections C and D) dedicated for work from home (WFH)

Odd numbered weeks (3, 5, 7, 9, 11, 13, 15)

- Group 2 (Sections C and D) dedicated for on-campus lab activities
- Group 1 (Sections A and B) dedicated for work from home (WFH)

Sections **A B C D** – please check CamLink for times

5. Basis of Student Assessment (Weighting)

Workbook	10%
Module Quizzes	27%
Midterm	8%
Lab	30%
-Attendance	
-Positioning Sheets	
-Simulation(Ziltron)	
Critique	10%
Cumulative Final Exam	15%
Final Comp	Completion
TOTAL	100%

Students must achieve a minimum of 65% to use this course as a prerequisite.

Workbook (10%)

Workbooks will be due any time before the closing time for the module quiz, usually Tuesday at 1159pm. A late workbook will result in no mark. The workbook chapters assigned will coincide with the chapters your quizzes are based on. This is to encourage you to use the workbook as a study tool. To obtain the mark for your workbook you will be asked to drop box images of 2 complete pages out of the assigned pages.

Module Quizzes (27%)

There will be quizzes following the completion of a module. They are used to assess your level of knowledge as it relates to the positioning and critique content from that module. The purpose of these quizzes throughout the term is to keep you up to date on course content, help you identify areas of weakness, celebrate successful integration of knowledge, provide confidence, decrease anxiety, and expose you to the type of questions you can expect on the midterms and final exam.

Midterm (8%)

There will be one midterm during the term. The midterm is cumulative from the start of the term. It will be used to assess your level of knowledge as it relates to the positioning and critique content from multiple modules. The purpose of the midterm is to keep you up to date on course content, help you identify areas of weakness, celebrate successful integration of knowledge, provide confidence, decrease anxiety, and expose you to the type of questions you can expect on the final exam.

Lab (30%)

Lab marks will be given for attendance, lab assignments and simulation exercises.

Attendance (10%)

Full marks will be given for each lab attended.

Half marks will be given if a lab is missed and an email is sent to instructor before lab stating this.

No marks will be given for a missed lab and an unknown absence (no email).

Positioning Sheets (10%)

Full marks will be given for completed positioning tables.

These will be due on Tuesdays at 1159pm.

Simulation (10%)

Full marks will be given for completion of modules.

These will be due on Tuesdays at 1159pm.

Critique (10%)

Marks for the Critique portion of MRAD 117 will be given for completion of the Passport.

There will be 5 body parts to critique to complete the Passport to Image Critique. This booklet allows practice of image analysis skills, as well as how to use correct terminology and technical language. Practicing these skills now will prepare the student for clinical terms where critique of all body parts is required for clinical portfolio completion. Image critique also allows development of strategies to recognize patient positioning errors, and how to fix them. Oral image critiques will be performed with the instructor on a one-on-one basis during synchronous sessions.

Final Exam (15%)

The final examination is cumulative and includes material from all modules covered in the course. This final examination will occur during the regularly scheduled final exam week.

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

In emergency circumstances, a student may write a test or 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 retrievable from: <http://camosun.ca/learn/calendar/current/pdf/academic-policies.pdf>)

Missed quizzes or examinations cannot be made-up except in the case of documented illness (doctor's note).

Final Competency (completion)

The cumulative final competency evaluates the student's abilities to determine if they are able to demonstrate, apply, discuss the **Intended Learning Outcomes** and are **safe to enter a clinical setting**.

Students must successfully complete the cumulative final competency in order to attend clinical.

Late Penalties

Late assignments will be subject to 10% per day penalty, at the instructor's discretion. Late assignments will be accepted only until the next assignment due date.

6. Grading System

- Standard Grading System (GPA)
- Competency Based Grading System

7. Recommended Materials to Assist Students to Succeed Throughout the Course

N/A

8. College Supports, Services and Policies

Immediate, Urgent, or Emergency Support



If you or someone you know requires immediate, urgent, or emergency support (e.g., illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts:

<http://camosun.ca/about/mental-health/emergency.html> or
<http://camosun.ca/services/sexual-violence/get-support.html#urgent>

College Services

Camosun offers a variety of health and academic support services, including counselling, dental, centre for accessibility, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit Student Services at <http://camosun.ca/services>

College Policies

Policies are available on the College website at <http://camosun.ca/about/policies>. Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with college policies.

Education and academic policies include, but are not limited to, [Academic Progress](#), [Admission](#), [Course Withdrawals](#), [Grading](#), [Involuntary Health and Safety Leave of Absence](#), [Prior Learning Assessment](#), [Medical/Compassionate Withdrawals](#), [Sexual Violence and Misconduct](#), [Standards for Awarding Credentials](#), [Student Ancillary Fees](#), [Student Appeals](#), and [Student Penalties and Fines](#).

Student Conduct Policy

The [Student Conduct Policy](#) provides clear expectations of appropriate academic and non-academic student conduct and establishes processes for resolution of conduct issues or the imposition of sanctions for inappropriate conduct. It is the student's responsibility to become familiar with the content of this policy.

A. GRADING SYSTEMS

<http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>

The following two grading systems are used at Camosun College:

1. 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+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes.

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

B. 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 at

<http://www.camosun.bc.ca/policies/E-1.5.pdf> 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 death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
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, or field placement.