

	<p style="text-align: center;">School of Health & Human Services Medical Radiography Technology</p> <p style="text-align: center;">Course Name: Pathology 1 Course Number: MRAD 122</p>
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COURSE OUTLINE

The Approved Course Description is available on the web:

<http://camosun.ca/learn/calendar/current/web/mrad.html#MRAD122>

Please note:

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

Introduction:

This online course provides an introduction to general pathology and specifics of bone pathology. The students will study commonly occurring bone fractures seen in the clinical environment. Emphasis is placed on recognition of fractures and subsequent changes to required patient care and exposure factors. The theoretical component will be supported by images demonstrating normal and pathological presentations.

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.

Prerequisites: A minimum of "C+" in MRAD 102, MRAD 105, MRAD 109, MRAD 115

1. Instructor Information

(a)	Instructor:	Lynelle Yutani		
(b)	Office Hours:	Email response and virtual office hours by appointment via Skype (or in person) available Monday – Friday 9:00 am to 5:00		
(c)	Location:	WT 212-D		
(d)	Phone:	250-370-3995	Skype ID:	cindernelly
(e)	Email:	yutanil@camosun.ca		
(f)	Website:	http://online.camosun.ca/		
(g)	facebook:	www.facebook.com/lyutani (also linked to Skype)		

2. Intended Learning Outcomes/Competencies

The objectives of this course are linked with the CAMRT competencies which are indicated in brackets at the end of each statement.

Upon successful completion, the student will be able to:

1. Identify various classifications of wounds.
2. Identify various classifications of fractures, dislocations and inflammatory disorders according to their etiology, location, appearance, type, spatial relationships, soft tissue involvement, and stability.
3. Assess fractures, dislocations in the extremities, spine, pelvis, skull and thoracic cage according to their etiology, patient signs and symptoms, and diagnostic image presentation.
4. Assess inflammatory disorders in the extremities, spine, pelvis, skull and thoracic cage according to their etiology, pathogenesis, patient signs and symptoms and diagnostic image presentation.
5. Identify the stages of tissue healing and repair related to fractures, dislocations and inflammatory disorders.
6. Explain the conditions affecting healing, common treatments and associated complications of fractures, dislocations and inflammation disorders in the extremities, spine, pelvis, skull and thoracic cage.
7. Provide suggestions for determining technical requirements by relating fractures to exposure technique.
8. Utilize clinical information needed to adapt the requested examination to an individual patient.

[CAMRT Medical Radiography Competency Profile](#)

3. Learning Resources

Required Textbooks:

Eisenberg, Ronald L., Johnson, Nancy M. (2007). *Comprehensive Radiographic Pathology*. (5th ed.) Mosby Elsevier, St. Louis, Mi.

Kowalczyk, N., & Mace, J.D. (2008). *Radiographic Pathology for Technologists* (5th ed.). Mosby.

Drake, R.L., Vogl, W., & Mitchell, A.W.M. (2010). *Gray's Anatomy for Students* (2nd ed.). Churchill Livingstone.

Optional & Supportive Textbooks:

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

Braun, Carie A. & Anderson, Cindy M. (2011). *Pathophysiology, A Clinical Approach*, (2nd ed.), Lippincott Williams & Wilkins.

McConnell, Thomas, H. (2007). *The Nature of Disease*, Lippincott Williams & Wilkins.

Anderson, K.N. (Ed.). (2001). *Mosby's Medical, Nursing and Allied Health Dictionary* (9th ed.). Mosby.

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.

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 from various sources. Additionally, not all details can be covered in the online content, 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: online notes, PowerPoint slides, Textbook Companion Workbooks, and hyperlinks. You may prefer to download online notes ahead of time (when available) and then write your notes directly onto copies of the slides/content.

4. Student Assessment

Discussions/Case Studies	20%
Module Quizzes	20%
Major Project	20%
Cumulative Final Exam	40%
TOTAL	100%

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

Assessment Details

Assignments:

ALL Late assignments are subject to a 2% penalty subtracted from a student's total FINAL GRADE in the course. (E.g. Three "late" assignments over the course of the term will result in 6% subtracted from the student's final grade *after* all other assignments, quizzes, and the final exam are calculated.) Failing to turn in a completed assignment results in a ZERO mark for the assignment AND the 2% penalty. Incomplete assignments are not accepted.

Unless otherwise stated, all assignments will be submitted via D2L. Assignments (Case Study Discussions & Major Project) will be accessible from within D2L and are posted no later than the first day of the module for which they are due. Online participation is mandatory (will be assigned); students receive marks for completing activities and discussions within the course. Students who fail to participate in an assigned discussion also incur the 2% penalty on their final grade.

Exceptions to this penalty are made solely at the discretion of the instructor. In mitigating circumstances evidence of acute injury, illness, or other emergency situation may be required. However, this does not guarantee that an exception will be made. In such situations, it is highly recommended that students attempt to arrange an extension of an assignment BEFORE the due date, if possible.

Quizzes:

Quizzes are administered online via D2L and may be accessed from any computer with

internet access during the window of availability. The student IS NOT required to take **quizzes** in a proctored environment. There is NO midterm exam for this course.

Final Exam:

The final exam will be scheduled in conjunction with the clinical sites. It is a cumulative assay of the entire course. The final examination will be sequenced & randomized from a cumulative bank of test questions. Students will sit for the final exam in an invigilated testing environment provided by their clinical site.

In emergency circumstances, a student may write a quiz 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 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>

5. Course Content and Schedule:

Lecture Days/Times & Room Number: N/A

Lab Days/Times & Room Number: N/A

The following schedule is tentative and subject to change if deemed necessary by the instructor.

Week	Dates	Module	Lecture	Quizzes and Assignments
1	Jan 7-11	1	Prep Week @ Clinical, Introduction to Pathology	None
2	Jan 14-18	2	Introduction to Classifications of Fractures	Module 1 & 2 Online Quiz #1
3	Jan 21-25	3	Upper Extremities	Case Study Discussion #1 (Upper Extremities)
4	Jan 28-Feb	3-4	Finish Upper Extremities, Begin Lower Extremities	Case Study Discussion #2 (Lower Extremities)
5	Feb 4-8	4	Lower Extremities	Module 3 & 4 Online Quiz #2
6	Feb 11-15	5 & 6	Pelvis & Thoracic Cage	Module 5 & 6 Online Quiz #3
7	Feb 18-22	7	Vertebral Fractures	Case Study Discussion #3 (Thorax, including Spine)
8	Feb 25-Mar 1	8	Skull Fractures & Anatomy	Module 7 & 8 Online Quiz #4
9	Mar 4-8	9	Inflammatory Disorders	Case Study Discussion #4 (Skull & Inflammation), Major Project (Due March 11)

MRAD 122 Pathology 1, Final Exam to be scheduled by each clinical site - check course NEWS to find out when/where your exam will be held.

Do not book trips until the final exam date is posted.

6. Grading System

The following two grading systems are used at Camosun College. This course will use:

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

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. (For these courses a final grade will be assigned to either the 3 rd course attempt or at the point of
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,

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

[Camosun.ca](http://camosun.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>

8. GENERAL INFORMATION

Suggested Study Time/Study Habits

- Successful students will probably spend 2 - 4 hours outside of class per week studying the content for this course to achieve full marks. This is in addition to the time it takes to navigate the online content.
- The instructor will be available during “virtual office” hours, by appointment, for students needing additional support mastering the course content.
- Map out a homework schedule; include time for reading and discussion.
- Study groups are a highly effective way of learning for many students.

Attendance

- Students are expected to be **on time** for class discussions or scheduled content; tardiness disrupts the class. When students log onto a time sensitive discussion late; marks will be deducted from their assignment.
- If you choose not to **or** are unable to attend an online lecture or activity; it is your responsibility to acquire **all** information given during a class missed, incl. 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).

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>



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