

# CLASS SYLLABUS



COURSE TITLE: MRAD 173 – Pathology – Part A  
CLASS SECTION: DX01  
TERM: F2021  
COURSE CREDITS: 3  
DELIVERY METHOD(S): Synchronous

Camosun College campuses are located on the traditional territories of the Lək̓ʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.  
Learn more about Camosun's [Territorial Acknowledgement](#).

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<https://camosun.ca/about/covid-19-updates>

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*Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable explanation in advance, you will be removed from the course and the space offered to the next waitlisted student.*

## INSTRUCTOR DETAILS

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NAME: Lynelle Yutani  
EMAIL: [yutaniL@camosun.ca](mailto:yutaniL@camosun.ca) or [yutaniL@online.camosun.ca](mailto:yutaniL@online.camosun.ca)  
OFFICE: Lansdowne, Young Building – Room 221  
HOURS: M-F Remotely by Appointment via Teams/Zoom/Phone

*As your course instructor, I endeavour to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me. Camosun College is committed to identifying and removing institutional and social barriers that prevent access and impede success.*

## CALENDAR DESCRIPTION

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In this advanced beginner course, students explore various musculoskeletal, respiratory, and cardiovascular pathologies due to disease and trauma. Students study images obtained from a variety of sources illustrating the appearance of pathological conditions common to these systems. To better understand how pathology impacts patient care and technical considerations for the radiographer, students discuss and experiment with adaptive actions and plan appropriate practice responses during laboratory activities.

**Note:** Only open to students in the Medical Radiography program.

PREREQUISITE(S): **All of:** C+ in MRAD 106  
CO-REQUISITE(S): Click or tap here to enter text.  
PRE/CO-REQUISITE(S): **All of:** C+ in MRAD 156

## COURSE DELIVERY

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ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lecture	2	14	

Seminar  
 Lab / Collaborative Learning  
 Supervised Field Practice  
 Workplace Integrated Learning  
 Online

1	14	
<b>TOTAL HOURS</b>		<b>42</b>

**COURSE LEARNING OUTCOMES**

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

- a) discuss the nature and effects of pathophysiologic processes on the human body as they pertain to radiographic imaging.
- b) organize commonly occurring pathological conditions of the musculoskeletal, respiratory, and cardiovascular systems by classification, etiology, pathogenesis, signs and symptoms, treatment, and radiographic appearance.
- c) apply knowledge of commonly occurring pathological conditions of the musculoskeletal, respiratory, and cardiovascular systems as they pertain to the components of a radiographic examination.

**COURSE OBJECTIVES AND MAPPED PROFESSIONAL COMPETENCIES**

(also known as “sub-outcomes” or “learning objectives”)

- Canadian Association of Medical Radiation Technologists Competency Profile, Radiological Technology (2014)
- A.3.4 Utilize medical terminology in professional communication. I
  - B.3.4 Identify clinically relevant details, and respond. I
  - E.1.3 Apply knowledge of pathologies, anomalies and conditions listed in Appendix 3. I
  - E.2.7 Recognize patterns consistent with abnormal results and pathologies included in Appendix 3. I

**REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION**

**In addition to your D2L course materials these textbooks are required:**

Eisenberg, Ronald L., Johnson. Nancy M.(2007). **Comprehensive Radiographic Pathology**. (7th ed.\*)  
 Mosby Elsevier, St. Louis, Mi.

Kowalczyk, N., & Mace, J.D. (2008). **Radiographic Pathology for Technologists** (7th ed.\*). Mosby Elsevier, St. Louis Mi.

(\*These should be available as part of the “**Custom Mrad 2Nd Yr Package Fall 2021**” Eisenberg ISBN 9780323975308, Copyright: 21, Publisher: Mosby available through the Camosun College Bookstore. Should you choose to use an earlier version of the required texts, please be aware it will be your own responsibility to verify any updated information or additional content.)

**Optional Textbooks:**

Drake, R.L., Vogl, W., & Mitchell, A.W.M. (2015). **Gray’s Anatomy for Students** (3rd ed.\*). Churchill Livingstone.

(\*Anatomic images from this textbook have been used in course content creation to provide illustrative variation, including in test question diagrams. Most students will not gain substantial value from purchasing this book. For those who desire to do so, nearly any edition of the text will suffice.)

**Other useful resources:**

**Complete Anatomy for PC/MAC**

Please contact your instructor directly if you have not previously been issued a personal Complete Anatomy licence key in conjunction with one of your other previous (or current) courses; or if your Camosun license for Complete Anatomy access has lapsed.

As part of this course, you may be eligible to check out an iPad if you are unable to use/access Complete Anatomy on a personal device. If you need to check out an iPad, the return of the iPad in useable undamaged condition is a gradable item that will be assessed as complete, or incomplete. Students must return the iPad and all supplies (charger, keyboard, case) by the completion of the course in order to get a complete grade in the course. Should the iPad not be returned, or, returned in a damaged condition that is irreparable or unusable, up to an \$800 replacement cost will be charged to the student.

In order to obtain an iPad, your instructor will need to initiate a request on your behalf. Any student borrowing an iPad for the semester will need to sign a lending contract prior to taking possession of the iPad indicating device condition, device identification, acknowledgement of the conditions of use, as well as an understanding of the assumed risk. Please be aware that from the time you email your instructor the request; it can take up to two weeks to arrange all of the details for pick-up. However, you should be able to complete all of the required course activities without

[CAMRT Competency Profiles](#) & [CAMRT Best Practice Guidelines](#)

By now, you have noticed that all your courses are linked to relevant CAMRT Competencies. This course was originally designed to link to the 2014 National Competency Profile which expires after the January 2024 certification exam. The 2019 National Competency Profile will be in effect from the May 2024 examination onward.

#### For your reference:

- 2014 Competency “A 3.4 Utilize medical terminology in professional communication” is now covered in 2019 MRT Competencies under MRT Communicator (of all those listed, the following are most relevant in relation to this course’s content).
  - **2.1 Establish and maintain effective communication**
    - 2.1.6 Provide appropriate information about procedures to patients and support persons and verify understanding.
    - 2.1.7 Adapt communication strategies to enhance interaction with patients and support persons.
    - 2.1.8 Respond to questions from patients and support persons or direct them to appropriate resources.
  - **2.2 Obtain, evaluate and share information**
    - 2.2.2 Identify clinically relevant details and respond. (*Formerly 2014 Competency B.3.4 Identify clinically relevant details, and respond*)
    - (NEW) 2.2.3 Provide accurate and timely updates to the care team as appropriate.
- 2014 Competency E.1.3 “Apply knowledge of pathologies, anomalies and conditions listed in Appendix 3 was changed to:
  - **RTR.3.2 Apply knowledge of pathophysiology as it relates to clinical procedures.** (Appendix 3 was replaced by Section Three of the [2019 RTR Competency Companion Documents](#).)
- 2014 E.2.7 Recognize patterns consistent with abnormal results and pathologies listed in Appendix 3 was changed to:
  - **RTR.6.4 Recognize common pathologies, anomalies, and conditions.**

A complete list of the difference between Appendix 3 and the new resource will be provided within the D2L content for the course. Due to the possibility that students taking this course may encounter additional required pathologies in later exam writings, BOTH will be covered.

#### IMPORTANT NOTE:

D2L – the Camosun College online learning portal – contains the majority 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. An overview is provided at the beginning of each module, which contains important information about learning objectives and resource materials. The D2L calendar should be used to obtain information about specific dates and times for all course assessments. D2L materials should not be considered your sole source of information. You will be required to refer to textbooks and other material that is not discussed specifically during the lectures or synchronous class meetings.

## COURSE SCHEDULE, TOPICS, AND ASSOCIATED PREPARATION / ACTIVITY / EVALUATION

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The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
1	Labour Day Stat (no class). Online course intro & Objective Review, Pathology Definitions	No assignments, Practice new terms & definitions.
2	Skeletal Trauma	Lab Assignment
3	Skeletal Trauma, cont.	Lab Assignment, cont.
4	Truth & Reconciliation Stat. Skeletal Pathologies	Lag Assignment
5	Skeletal Pathologies, cont.	Lab Assignment, cont.
6	Thanksgiving Day Stat (no class). Skeletal Pathologies, cont.	Quiz 1 (10%)
7	Cardiovascular Pathologies	Lab Assignment
8	Cardiovascular Pathologies, cont.	Lab Assignment, cont.
9	Cardiovascular Pathologies, cont.	Lab Assignment, cont. Quiz 2 (10%)
10	Remembrance Day Stat. Respiratory Pathologies begin if Cardiovascular have completed (Flexible)	Lab Assignment
11	Respiratory Pathologies, cont.	Lab Assignment, cont.
12	Respiratory Pathologies, cont.	Lab Assignment, cont.
13	Respiratory Pathologies, cont.	Quiz 3 (10%)
14	Flex/Review Week & Catch-up if needed	*Bonus Review Assignment
15	Final Exam or Assessment Week	TBD

Students registered with the Centre for Accessible Learning (CAL) who complete quizzes, tests, and exams with academic accommodations have booking procedures and deadlines with CAL where advanced noticed is required. Deadlines scan be reviewed on the [CAL exams page](http://camosun.ca/services/accessible-learning/exams.html). <http://camosun.ca/services/accessible-learning/exams.html>

## STUDENT EVALUATION

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DESCRIPTION	WEIGHTING
Participation	5%
Lab Assignments	35%
Quizzes (10% each)	30%
Cumulative Final Exam/Assessment	30%
Bonus Assignment*, up to 5%	
<b>TOTAL</b>	<b>100%</b>

If you have a concern about a grade you have received for an evaluation, please come and see me as soon as possible. Refer to the [Grade Review and Appeals](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) policy for more information.  
<http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

## COURSE GUIDELINES & EXPECTATIONS

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### TEST AND EXAMINATION PROCEDURES

There are policies regarding [Teaching and Learning Practices for HHS Students](#), including written test and examination procedures including late arrivals and missed tests. Please see the Health and Human Services Student Handbook item 5.4 for Test and Examination Procedures. (<https://legacy.camosun.ca/learn/school/health-human-services/student-info/index.html#teaching>)

Please, inform me as soon as possible if conditions have arisen to prevent you from taking your examination during the available times.

### WRITTEN ASSIGNMENTS

Assignments are due before 2400 hours (midnight) on the assigned day unless otherwise specified. Assignments about patients, residents or clients must be completed using the individual's initials only. Unless otherwise directed by individual course outlines or templates, assignments must be:

- word processed,
- double spaced,
- font meeting [APA 7th edition guidelines](#),
- with a title page and a reference list.

Students requiring an extension for the due date of an assignment must negotiate with the instructor, at least 48 hours before the due date. Assignments submitted late *without* an approved extension will result in a **10% deduction** in marks for each day late, until the eve of the next assignment due date, or whenever the assignment no longer has value; whichever comes first. Abandoned/late assignments will NOT be accepted during the Flex weeks at the end of the semester.

*\*Bonus assignment points cannot result in greater than 100% total marks in the course, students who have been identified as "at risk" for failing the course MUST complete the bonus assignment in order to be eligible for a supplemental examination. A "supplemental examination" – an alternative demonstration of total course mastery – shall only be offered if the student is within 59.5% in total course marks following tabulation of all grades. The nature of the "supplemental examination" shall be the sole discretion of the instructor and is not subject to the normal application of the Grade Review and Appeals policy as it exists outside of regular course content.*

### COURSE COMMUNICATIONS & BEHAVIOURAL EXPECTATIONS

Whenever sending direct emails to the instructor ensure you include the complete D2L title of the course in your subject:

- **2021 Fall Pathology - Part A (MRAD-173-DX01) - MRAD-173-DX01:** URGENT/TOPIC/SICK DAY etc.

The instructor will typically respond to direct emails within two business days (M-F w/in 48 hours). Students should use the "Important" priority tag on any email reporting a missed class or potentially missed assignment or examination.

The instructor intends to begin marking assignments on the day they are due (before the assignment window closes for any assignments submitted in advance) and will strive to have marking completed within three total business days following the close of the assignment window. The instructor will withhold releasing feedback or marks if there are any outstanding assignments until all late assignments have been received, the end of the late assignment acceptance period, or once the student(s) with outstanding assignments have communicated with the instructor that they do not intend to complete their assignment(s).

- Students should familiarize themselves with the Camosun College [Student Learning Success Guides](#) and pay close attention to the [Remote & Online Learning](#) guide in particular. This course will observe the [Student Guidelines for Communicating in Online, Professional Contexts](#) resource. Please watch the [Discussion Board Tips](#) video to help you make the most of our asynchronous discussion activities and assignments.

## ATTENDANCE

Students will be expected to "enter class" or start the online portion of synchronous session with video and audio on. This meet-and-greet period of the synchronous online session will last about five minutes and students may elect to switch off their audio/video for the remainder of the synchronous class time unless they are presenting. Students should "mute" their audio whenever they are not actively in conversation or presenting during an online session. At the end of the synchronous online session there will be a five-minute checking-out period. If you are not present and visible for at least a portion of both these parts of the synchronous session, you may not receive participation marks for the synchronous session. Participation marks are awarded for both synchronous and asynchronous course activities at the discretion of the instructor.

- If you choose not to or are unable to attend a synchronous session it is your responsibility to acquire all information given during a class missed, incl. notes, hand-outs, assignments, changed exam dates etc.
- Student attitudes and behaviours surrounding attendance contribute to the professionalism mark in the course; however, attendance is not recorded.
- Should you miss a session for any reason, please inform your instructor as soon as possible once you are in a safe environment. Illness itself shall not be penalized, however students are independently responsible for any content missed.
- Synchronized sessions of this course shall only be recorded and posted to the D2L content with full and enthusiastic approval of all course attendants.

## SUGGESTED STUDY TIME & STUDY HABITS

- There is one hour per week "synchronous course activities" and two hours per week of course content/laboratory (reading & assignments).
- A reasonable amount of time to dedicate to studies in this course for *adequate* (65%) comprehension of the course material would be the **three listed course hours, plus three additional hours** of assignments, discussions, study & reading your textbooks.
- Students who desire "full marks" or A+ grades, probably spend *more* than 6 hours outside of class per week studying the content and completing assignments for this course.
- Seeking any percentage above 90% is a waste of time you could be spending on other courses. At Camosun College, 90% is an A+ and no higher GPA can be shown on your transcript.
- Map out a study schedule; include dedicated time for reading, assignments, discussions, group work, and digesting/watching online content – spread it out during the week to give your brain time to absorb different information.
- It can be valuable to review your notes within 24 hours *following* each class to help you retain the information.
- Study/social groups are a highly effective way of learning for many students.

## SCHOOL OR DEPARTMENTAL INFORMATION

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Health & Human Services Student Handbook: <http://camosun.ca/learn/school/health-human-services/student-info/index.html>

General Practicum Information: <http://camosun.ca/learn/school/health-human-services/student-info/practicum-info.html>

Allied Health & Technologies Department Handbooks:

- Certified Medical Laboratory Assistant: <http://camosun.ca/learn/school/health-human-services/student-info/program-info/cmla.html>
- Diagnostic Medical Sonography: <http://camosun.ca/learn/school/health-human-services/student-info/program-info/sono.html>
- Medical Radiography: <http://camosun.ca/learn/school/health-human-services/student-info/program-info/mrad.html>

Students enrolled in Allied Health & Technologies Programs must achieve a minimum of 65% or a “COM” in each of their courses in order to use their course as a pre-requisite and progress in their program.

Students enrolled in Allied Health & Technologies Programs must participate in learning activities that include intimate and direct personal contact with their classmates during supervised practice. Students are training to perform the duties of a healthcare professional. These duties usually require constant, close physical contact with patients and clients. Students may be required to simulate and perform these activities on one another during this course. Students may also be required to use special hygiene practices and protective gear to protect themselves from the transmission of communicable diseases (like COVID-19). Risks associated with learning and performing the physical duties of a healthcare profession cannot be entirely eliminated by any amount of caution or protection. Students who refuse, or are incapable of participating and performing these activities due to personal or medical limitations, may only continue to participate in their course work when supported by officially registered accommodations or temporary medical advisory.

## STUDENT RESPONSIBILITY

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Enrolment at Camosun assumes that the student will become a responsible member of the College community. As such, each student will display a positive work ethic, assist in the preservation of College property, and assume responsibility for their education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

## SUPPORTS AND SERVICES FOR STUDENTS

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Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit <http://camosun.ca/students/>.

Support Service	Website
Academic Advising	<a href="http://camosun.ca/advising">http://camosun.ca/advising</a>
Accessible Learning	<a href="http://camosun.ca/accessible-learning">http://camosun.ca/accessible-learning</a>
Counselling	<a href="http://camosun.ca/counselling">http://camosun.ca/counselling</a>
Career Services	<a href="http://camosun.ca/coop">http://camosun.ca/coop</a>

Support Service	Website
Financial Aid and Awards	<a href="http://camosun.ca/financialaid">http://camosun.ca/financialaid</a>
Help Centres (Math/English/Science)	<a href="http://camosun.ca/help-centres">http://camosun.ca/help-centres</a>
Indigenous Student Support	<a href="http://camosun.ca/indigenous">http://camosun.ca/indigenous</a>
International Student Support	<a href="http://camosun.ca/international/">http://camosun.ca/international/</a>
Learning Skills	<a href="http://camosun.ca/learningskills">http://camosun.ca/learningskills</a>
Library	<a href="http://camosun.ca/services/library/">http://camosun.ca/services/library/</a>
Office of Student Support	<a href="http://camosun.ca/oss">http://camosun.ca/oss</a>
Ombudsperson	<a href="http://camosun.ca/ombuds">http://camosun.ca/ombuds</a>
Registration	<a href="http://camosun.ca/registration">http://camosun.ca/registration</a>
Technology Support	<a href="http://camosun.ca/its">http://camosun.ca/its</a>
Writing Centre	<a href="http://camosun.ca/writing-centre">http://camosun.ca/writing-centre</a>

If you have a mental health concern, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

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## COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

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### Academic Accommodations for Students with Disabilities

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, depression, learning, etc). If you have a disability, the [Centre for Accessible Learning](#) (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course instructors. Please visit the CAL website for contacts and to learn how to get started:

<http://camosun.ca/services/accessible-learning/>

### Academic Integrity

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

### Academic Progress

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.



### Course Withdrawals Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

### Grading Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

### Grade Review and Appeals

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

### Mandatory Attendance for First Class Meeting of Each Course

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the “Attendance” section under “Registration Policies and Procedures” (<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

### Medical / Compassionate Withdrawals

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal. Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

### Sexual Violence and Misconduct

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun’s Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence or misconduct occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student’s right to choose what is right for them. For more information see Camosun’s Sexualized Violence and Misconduct Policy: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.9.pdf> and [camosun.ca/sexual-violence](http://camosun.ca/sexual-violence). To contact the Office of Student Support: [oss@camosun.ca](mailto:oss@camosun.ca) or by phone: 250-370-3046 or 250-370-3841

### Student Misconduct (Non-Academic)

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College’s Student Misconduct Policy at <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College’s expectations of academic integrity and student behavioural conduct.

**Changes to this Syllabus:** Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.