



# Course Syllabus

**Course title:** Relational A & P - Part B

**Class section:** MRAD - 256 - X01

**Term:** 2025W

**Course credits:** 3

**Total hours:** 60

**Delivery method:** In-Person

## Territorial Acknowledgement

Camosun College respectfully acknowledges that our campuses are situated on the territories of the Łək̓ʷəŋən (Songhees and Kosapsum) and W̱SÁNEĆ peoples. We honour their knowledge and welcome to all students who seek education here.

## Instructor Details

**Name:** Hong Gerow

**Email:** gerowh@camosun.ca

## Instructor Statement

*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.*

## Instructor Office Hours

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Office:	Hours:
CHW 317	By appointment

## Course Description

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### Course Description:

In this advanced beginner course, students complete an in-depth examination of the relational anatomy and physiology of the gastrointestinal, urinary, reproductive, neurologic, endocrine, and hematopoietic systems. Students enhance their understanding of anatomic relationships and physiologic functions using various medical imaging studies and a variety of illustrative media.

### Prerequisites:

All of:

- C+ in MRAD 106

## Course Learning Outcomes / Objectives

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Upon successful completion of this course, the learner will be able to

1. Interpret anatomical structures and relationships of the gastrointestinal, urinary, reproductive, neurologic, endocrine, and hematopoietic systems using multi-media including medical images
2. Discuss the physiological function of the gastrointestinal, urinary, reproductive, neurologic, endocrine and hematopoietic systems as they pertain to the practice of medical imaging
3. Compare and contrast the anatomic and physiologic information obtained by various medical imaging modalities

## Course Competencies

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**Canadian Association of Medical Radiation Technologists Competency Profile, Radiological Technology (2019)**

Learning Outcome	CAMRT Competencies
<b>Upon successful completion of this course, a learner will be able to:</b>	
1.  Interpret anatomical structures and relationships of the gastrointestinal, urinary, reproductive, neurologic, endocrine, and hematopoietic systems using multi-media including medical images.	RTR.3.1 Apply knowledge of gross anatomy, relational anatomy and physiology related to the imaging of anatomical structures.  RTR.4.3 Position patient for imaging procedures using anatomical landmarks and knowledge of relational anatomy  RTR.4.4 Align imaging system to demonstrate required anatomical structure(s)  RTR.6.2 Differentiate anatomical structures on images
2.  Discuss the physiological function of the gastrointestinal, urinary, reproductive, neurologic, endocrine, and hematopoietic systems as they pertain to the practice of medical imaging.	RTR.3.1 Apply knowledge of gross anatomy, relational anatomy and physiology related to the imaging of anatomical structures.  RTR.3.2 Apply knowledge of pathophysiology as it relates to clinical procedures.  RTR.6.2 Differentiate anatomical structures on images
3.  Compare and contrast the anatomic and physiologic information obtained by various medical imaging modalities.	RTR.3.1 Apply knowledge of gross anatomy, relational anatomy and physiology related to the imaging of anatomical structures.  RTR.6.2 Differentiate anatomical structures on images

## Course Materials - Required

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Lampignano, J. P., & Kendrick, L. E. (2021). Bontrager's textbook of radiographic positioning and related anatomy (10th ed.). Elsevier.

Patton, K. (2022). Anatomy & physiology (11th ed.). Elsevier.

## Recommended Preparation / Information

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Eisenberg, R. L., & Johnson, N. M. (2021). Comprehensive radiographic pathology (7th ed.). Elsevier.

Kowalczyk, N. (2022). Radiographic pathology for technologists (8th ed.). Elsevier.

## Course Delivery Hours

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ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lecture	4	14	2 hours in person 2 hours asynchronous
		<b>TOTAL HOURS:</b>	56

\*\* Please note that Camosun is standardized on a 15-week semester which, where applicable, includes a final evaluation week. When an evaluation week is not required this may create a discrepancies in total hours.

## Course Schedule, Topics, and Associated Preparation / Activity

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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	Dates	Lecture	Ch.	Assignments and Due Dates
1	Jan. 6-10	<ul style="list-style-type: none"> <li>Course Introduction</li> <li>Introduction to the Nervous System</li> </ul>	18	No homework due this week
2	Jan. 13-17	Recruiter's Day Jan. 13 – no classes on Monday		
3	Jan. 20-24	<ul style="list-style-type: none"> <li>Central Nervous System</li> </ul>	20	<ul style="list-style-type: none"> <li>Nervous System worksheet, due Jan. 22</li> </ul>
4	Jan. 27-31	<ul style="list-style-type: none"> <li>Endocrine System</li> <li>Lymphatic and Hematopoietic Systems (brief)</li> </ul>	25 and 26 27 and 31	2 worksheets due Jan. 29: <ul style="list-style-type: none"> <li>Endocrine</li> <li>Lymphatic/Hematopoietic (brief)</li> </ul>
5	Feb. 3-7	Modules Exam 1 – Feb. 3 (contents from weeks 1, 3, 4)		
6	Feb. 10-14	<ul style="list-style-type: none"> <li>Upper Digestive System – anatomy</li> </ul>	38 39	<ul style="list-style-type: none"> <li>Upper Digestive worksheet, due Feb. 12</li> </ul>

		<ul style="list-style-type: none"> <li>Lower Digestive System – anatomy</li> </ul>		
7	Feb. 17-21	Reading Break – Study Week		
8	Feb. 24-28	<ul style="list-style-type: none"> <li>Lower Digestive System – anatomy</li> <li>Digestion and Absorption – digestive physiology</li> </ul>	39 40	<ul style="list-style-type: none"> <li>Lower Digestive worksheet, due Feb. 26</li> </ul>
9	Mar. 3-7	<ul style="list-style-type: none"> <li>Digestion and Absorption – digestive physiology</li> </ul>	40	<ul style="list-style-type: none"> <li>Digestive physiology worksheet, due Mar. 5</li> </ul>
10	Mar. 10-14	Modules Exam 2 – Mar. 10 (contents from weeks 6, 7, 9)		
11	Mar. 17-21	<ul style="list-style-type: none"> <li>Urinary System</li> </ul>	42	<ul style="list-style-type: none"> <li>Urinary worksheet, due Mar. 19</li> </ul>
12	Mar. 24-28	<ul style="list-style-type: none"> <li>Female/Male Reproductive Systems</li> </ul>	Female:  Ch. 20, Part 5  Bontrager  Male:  Ch. 45 Patton	<ul style="list-style-type: none"> <li>Reproductive worksheet, due Mar. 26</li> </ul>
13	Mar. 31 – Apr. 4	Cumulative Review		
14	Apr. 7-11	Cumulative Final Exam – Apr. 7		

## Evaluation of Learning: Weighted

DESCRIPTION	WEIGHTING
Assignments	15
Modules Exam 1	25
Modules Exam 2	25
<b>TOTAL:</b>	<b>100%</b>

DESCRIPTION	WEIGHTING
Cumulative Final Exam	35
<b>TOTAL:</b>	<b>100%</b>

**NOTE: MRAD Students must achieve at least a ("C+") or COM in all program courses.**

### **Camosun's Grading Systems**

<https://camosun.ca/registration-records/student-records/camosun-grading-systems>

### **Grade Reviews and Appeals**

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 policy** for more information.

<http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

**The Centre for Accessible Learning (CAL) is part of Camosun's Student Affairs unit.** CAL coordinates academic accommodations and provides related programs and services to students with documented disabilities.

Students who require academic accommodations are expected to request and arrange accommodations through CAL in a timely fashion. While we understand that not all accommodation needs are known to students at the beginning of a course, accommodations cannot be provided unless the proper process is followed through CAL and an accommodation letter has been released to the instructor. Students are responsible for providing CAL with the proper documentation prior to the beginning of a course.

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 can be reviewed on the CAL exams page**

<https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams>

### **Please consult the CAL webpage for more information:**

<https://camosun.ca/services/academic-supports/accessible-learning>

## **Artificial Intelligence: A Guide for Students**

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**Generative Artificial Intelligence (GenAI)** is an evolving technology that brings potential benefits but also substantial risks. While GenAI tools have the ability to transform how we work and learn, it is essential for the college community to adapt to these changes in a thoughtful and secure way.

**When using GenAI tools, students should ensure proper citation and attribution guidelines are followed.** This includes acknowledging AI assistance in reports ,presentations, or any external communications. Clear citation helps build trust, ensures ethical use, and reduces the risk of misinformation or copyright issues.

**For citation support visit the college's citation style guide.**

<https://camosun.libguides.com/cite>

### **Artificial Intelligence: A Guide for Students**

Visit the following website to learn about AI use in academic settings.

<https://camosun.libguides.com/artificialintelligence/home>

## **Course Guidelines & Expectations**

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In person sessions for MRAD 256 are Monday 0930-1120, CHW 340.

There are also 2 asynchronous hours, intended for you to review supplemental lectures provided in D2L.

### **Course Alignment**

This course directly aligns to many other courses this term, especially MRAD 273 Pathology. Knowledge in A and P are the building blocks to ensure you understand pathologies, sectional anatomy and CT procedures of the same body systems. You must keep up to date (or work ahead) with course content, studying approximately 4 hours a week. Don't let struggles linger. Seek support from other students, the course instructor, other course instructors or other resources.

Print the course calendar and check in with it often to make sure you are on track.

### **Modules Exams and Final Exam**

There are 2 non-cumulative modules exams and one cumulative final exam. Material from lectures and assignments will both be included. In emergency circumstances, you may write a modules exam before or after the scheduled time (health problems, unavoidable family crises, etc.). You must request for approval of this date change from me prior to the date of the exam. Holidays or scheduled flights are not considered emergencies. You may be required to provide verification of the emergency circumstance.

### **Assignments**

Assignments are meant to supplement lecture material for a complete understanding of the module. Not all lecture material is included in the assignments, and not all assignment material is included in the lectures.

Assignments are due on some Wednesdays to ensure I can mark them and provide feedback in time for studying for exams the following Monday.

To give you a bit of flexibility, you may opt to request to be exempted from a course assignment. This is a one-time request, and the request must be made prior to the due date of the assignment. You may make this request via email, and I will adjust your gradebook.

### **MRAD Program Late Policy**

All quizzes and assignments are meant to provide an opportunity to deepen your understanding and connection with the learning materials. They must be submitted by dates shown on the course schedule and on D2L. Print the course calendar and check in with it often to make sure you are on track. There may be a penalty of 10% per day applied to assignment marks. The instructor will notify you before this penalty is applied the first time. Thereafter, it will be applied automatically if homework continues to be handed in late. After one week has passed, the quiz/assignment will no longer be accepted and a score of zero will be given.

### **MRAD Program Academic Integrity**

You are expected to produce your own work, in your own words, upholding the academic and professional integrity expected of Camosun College students and medical radiography professionals. An incidence of academic misconduct will result in a score of zero for that assignment or exam. This includes plagiarism, whether intentional or unintentional. Continued incidences of academic misconduct may result in escalated actions such as failing this course or removal from the MRAD program. Please see the Academic Integrity policy linked below for more detailed information. Students are encouraged to retake the Academic Integrity course on D2L as a reminder of professional and ethical academic integrity.

### **Citations and Referencing**

If you are sourcing your answers from the required course textbooks, you do not need to provide a citation or a reference. If you source from external resources, citations and references are required. All information sourced from an outside source, whether a paraphrase or a quote, must be cited and referenced.

### **Using Quotes in Answers**

Do not provide answers with only a quote from a source. While it is not plagiarism to answer with only a quote, this is not demonstrative of your knowledge. Answering questions in your own words demonstrates that you understand the content and can express it in an accurate way that makes



sense to you. A quote may be included with your answer, but only as a way to support and provide extra to your words.

Answers that includes mostly a quote will be scored zero.

## School or Departmental Information

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**Students are required to read and are accountable for the College policies (outlined below) and practicum guidelines as described in the School of Health and Human Services (HHS) and program handbooks.**

[MRAD Program Handbook](#)

### **Clinical and Practice Placements in HHS**

<https://camosun.ca/programs-courses/school-health-and-human-services/hhs-programs/practicums>

### **School of Health and Human Services (HHS)**

<https://camosun.ca/programs-courses/school-health-and-human-services/information-health-and-human-services-students-1#top>

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.

## College Policies

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### **Academic Integrity**

Students are expected to follow the college's [Academic Integrity policy](#), and be honest and ethical in all aspects of their studies. To help you understand these responsibilities review the online [Academic Integrity guide](#).

The college's [Academic Integrity policy and supporting documents](#) detail the process for addressing and resolving matters of academic misconduct.

### **Academic Accommodations for Students with Disabilities**

If you have a documented disability and need accommodations contact the Centre for Accessible Learning (CAL). CAL will arrange the appropriate academic accommodations so you can participate in all academic activities. Visit the [CAL website](#) for more information

### **Academic Progress**

The [Academic Progress policy](#) details how the college monitors students' academic progress and what steps are taken if a student is at risk of not meeting the college's academic progress standards.

### **Acceptable Technology Use**

The [Acceptable Technology Use](#) policy outlines how students are expected to use college technology resources, this includes using your own devices on the college's network. The use of the college resources in a way that violates a person's right to study in an environment free of discrimination, harassment or sexual violation is prohibited.

### **Course Withdrawals Policy**

For details about course withdrawal see the [Course Withdrawals policy](#). Be aware of the [deadlines for fees, course drop dates, and tuition refunds](#).

### **Grading Policy**

To learn more about grading see the [Grading Policy](#).

### **Grade Review and Appeals**

The process to request a review of grades is outlined in the [Grade Review and Appeals policy](#).

## Medical / Compassionate Withdrawals

If you have experienced a serious health or personal issue, you may be eligible for a [medical/compassionate withdrawal](#). The [Medical / Compassionate Withdrawal Request form](#) outlines what is required.

## Sexual Violence

If you have experienced sexual violence on or off campus, you can get support from the Office of Student Support. The Office of Student Support is a safe and private place to talk about what supports are available and your options for next steps. Visit the [sexual violence support and education site](#) to learn more or email [oss@camosun.ca](mailto:oss@camosun.ca) or phone: 250-370-3046 or 250-370-3841.

## Student Misconduct (Non-Academic)

Camosun expects students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Review the [Student Misconduct Policy](#) to understand the college's expectations of conduct.

Looking for other policies? See [Camosun College Policies and Directives](#)

## Services and Supports

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Services are free and available to all students.

Academic Supports	Enrollment Supports
<a href="#">Centre for Accessible Learning</a>	<a href="#">Academic Advising</a>
<a href="#">English, Math and Science Help Centres</a>	<a href="#">Financial Aid and Awards</a>
<a href="#">Library</a>	<a href="#">Registration</a>
<a href="#">Writing Centre &amp; Learning Skills</a>	<a href="#">Tuition and Fees</a>
Health and Wellness	Applied learning
<a href="#">Counseling</a>	<a href="#">Co-operative Education and Career Services</a>
<a href="#">Fitness and Recreation</a>	

[Office of Student Support](#)

[Makerspace](#)

The [Centre for Indigenous Education Centre and Community Connections](#) provides cultural and academic supports for Indigenous students.

[Camosun International](#) provides supports to international students.

[The Ombudsperson](#) provides an impartial, independent service to ensure students are treated fairly. The service is a safe place for students to voice and clarify concerns and complaints.

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

## 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 the course content or schedule. When changes are necessary the instructor will give clear and timely notice.