



# Course Syllabus

**Course title:** Relational A&P for Technologists - Part A

**Class section:** MRAD - 156 - BX01

**Term:** 2025S

**Course credits:** 3

**Total hours:** 60

**Delivery method:** Blended

## **Territorial acknowledgment**

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

## **Instructional hours**

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**Lecture hours:** 4 per W

W = Week

T = Term

## Instructor details

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**Name:** Daniel Andrews

**Email:** AndrewsD@camosun.ca

## 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 musculoskeletal, respiratory, and cardiovascular 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

## Learning outcomes

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

1. Interpret anatomical structures and relationships of the musculoskeletal, respiratory, and cardiovascular systems using multi-media including medical images.
2. Discuss the physiological function of the musculoskeletal, respiratory, and cardiovascular 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.

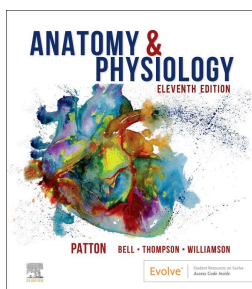
## Competency mapping

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Learning Outcome	Competencies

1. Interpret anatomical structures and relationships of the musculoskeletal, respiratory, and cardiovascular 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.
2. Discuss the physiological function of the musculoskeletal, respiratory, and cardiovascular 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 reading materials



**Title:** Anatomy & Physiology

**Authors:** Patton, Bell, Thompson & Williamson

**Publisher:** Elsevier

**Publication Date:** 2022

**Edition:** 11th

**Required/Optional:** Required

## Course schedule

WEEK / DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
1—May 5-9	Course Intro	
2—May 12-17	Ch. 15 Part 1: Muscle Structure & Fibre Arrangement Ch. 15 Part 2: Axial Muscles	
3—May 19-23	No classes Monday (Victoria Day) Ch. 16: Appendicular Muscles	
4—May 26-30	Ch. 16 Appendicular Muscles, cont.	
5—June 2-6	Ch. 17 Muscle Contraction	
6—June 9-13	Ch. 28 Heart	

WEEK / DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
7—June 16-20	Ch. 28 Heart, cont. No classes Tuesday (Graduation Day)	
8—June 23-27	Ch. 29 Blood Vessels	
9—June 30-July 4	Ch. 30 Circulation of Blood No classes Tuesday (Canada Day)	
10—July 7-11	Test 2 (10%)	
11—July 14-18	Ch. 35 Respiratory Tract	
12—July 21-25	Ch. 36 Ventilation	
13—July 28-Aug 1	Ch. 37 Gas Exchange & Transport	
14—Aug 4-8	No classes Monday, Aug 4 (BC Day) Flex Week	
15—August 11-15	Final Exam Week	

## Assessment and evaluation

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Type	Description	Weight
Assignment	Lab Assignments	20%
Quizzes and tests	Quizzes (20%) and Tests (30%)	50%
Exams (Midterms and finals)	Final Exam	30%

## Course guidelines and expectations

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### 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.

## **College policies and student responsibilities**

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The college expects students to be responsible, respectful members of the college community. Responsible students meet expectations about attendance, assignments, deadlines, and appointments. They become familiar with academic policies and regulations, and their rights and responsibilities.

College policies are available online at the [Policies and Directives](#) page. Academic regulations are detailed on the [Academic Policies and Procedures for Students](#) page.

Policies all students should be familiar with include the [Academic Integrity Policy](#). This policy expects students to be honest and ethical in all aspects of their studies. It defines plagiarism, cheating, and other forms of academic dishonesty. Infractions of this policy can result in loss of marks or a failing

grade. To learn more about plagiarism and cheating, including the use of artificial intelligence, review the [Academic Integrity Guide](#).

The [Academic Accommodations for Students with Disabilities Policy](#) defines how Camosun provides appropriate and reasonable academic accommodations. The Centre for Accessible Learning (CAL) coordinates academic accommodations. Students requiring academic accommodations should request and arrange accommodations through CAL. Contact CAL at least one month before classes start to ensure accommodations can be put in place in time. Accommodations for quizzes, tests, and exams must follow CAL's booking procedures and deadlines. More information is available on the [CAL website](#).

Students must meet the grading and promotion standards to progress academically. More information is available in the [Grading Policy](#).

The college uses two grading systems. A course will either use the standard letter grade system (A+ to F) or a competency-based approach with grades of complete, completed with distinction or not completed. Visit the [Grades/GPA page](#) for more information.

Students must meet the college's academic progress standards to continue their studies. A student is not meeting the standards of progress when a GPA falls below 2.0. The college offers academic supports for students at risk of not progressing. The [Academic Progress Policy](#) provides more details.

If you have a concern about a grade, contact your instructor as soon as possible. The process to request a review of grades is outlined in the [Grade Review and Appeals Policy](#).

The [Course Withdrawals Policy](#) outlines the college's requirements for withdrawing from a course. Consult the [current schedule](#) of deadlines for fees, course drop dates, and tuition refunds.

If students experience a serious health or personal issue, they may be eligible for a [medical or compassionate withdrawal](#). The [Medical/Compassionate Withdrawal Request Form](#) outlines what is required.

The [Acceptable Technology Use](#) policy ensures the use of the college network and computers contribute to a safe learning environment. This policy also applies to the use of personal devices with the college network.

Students experiencing sexual violence can get support from the Office of Student Support. This Office of Student support is a safe and private place to discuss supports and options. More information is available on the [sexual violence support and education site](#). Students can email [oss@camosun.ca](mailto:oss@camosun.ca) or phone 250-370-3046 or 250-370-3841.

The [Student Misconduct Policy](#) outlines the college's expectations of conduct. Students should behave to contribute to a positive, supportive, and safe learning environment.

The [Ombudsperson](#) provides an impartial, independent service to help students understand college policies.

## Services for students

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Successful students seek help and access college services. These services are recommended to make the most of your time at college.

### Services for Academic Success

- [Career Lab](#): Connects students with work-integrated learning experiences, including co-op placements and career fairs.
- [English, Math, and Science Help Centres](#): Get one-on-one help with homework.
- [Library](#): Get help with research, borrow materials, and access e-journals and e-books. Libraries at both campuses provide computers, individual and group study spaces.
- [Makerspace](#): A place to innovate, collaborate, and learn new skills and technology in a fun, dynamic, inclusive environment.
- [Writing Centre & Learning Skills](#): Get assistance with academic writing or meet with a learning skills specialist for help with time management, preparing for exams, and study skills.

### Enrolment, Registration, and Records

- [Academic Advising](#): Talk to an academic advisor for help with program planning.
- [Financial Aid and Awards](#): Learn about student loans, bursaries, awards, and scholarships.
- [Registration](#): Get information about Camosun systems, including myCamosun, and college policies and procedures.
- [Student Records](#): Get verification of enrolment to access funding, request a transcript, or credential.

### Wellness and Cultural Supports

- [Counselling](#): It's normal to feel overwhelmed or unsure of how to deal with life's challenges. The college's team of professional counsellors are available to support you to stay healthy. Counselling is free and available on both campuses. If you need urgent support after-hours, contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.
- [Centre for Indigenous Education and Community Connections](#): Provides cultural and academic supports for Indigenous students.
- [Camosun International](#): Provides cultural and academic supports for international students.
- [Fitness and Recreation](#): Free fitness centres are located at both campuses.

For a complete list of college services, see the [Student Services](#) page.

## **Changes to this syllabus**

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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.