

COURSE SYLLABUS



COURSE TITLE: AET 341 – Anatomy of the Upper Extremity

CLASS SECTION: X01A/B

TERM: Winter 2025

COURSE CREDITS: 3 credits

DELIVERY METHOD(S): Lecture & Laboratory

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

INSTRUCTOR DETAILS

NAME: Dr. Johanna Hurtubise, PhD, CAT(C)

EMAIL: hurtubisej@camosun.ca

OFFICE: PISE 212D

OFFICE HOURS: Thursday 11:30-2:30, or by appointment

INSTRUCTIONAL ASSISTANTS: Sheena Kelly (X01A) and Julia Tschanz (X01B)

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

Advanced theoretical and practical skills to assess and rehabilitate the injured individual as it pertains to the spinal column. Focus is on the musculoskeletal and neurological assessment and rehabilitation of the spinal column. This course is restricted to student in the Athletic & Exercise Therapy program.

PREREQUISITE(S): COM in AET 301, and 'C' in AET 340

CO-REQUISITE(S): AET 302, AET 381

COURSE LEARNING OUTCOMES / OBJECTIVES

At the completion of this course, students will be able to:

- a) Identify and palpate the origin, insertion, blood supply, nerve innervations, action, and describe the function of the muscles of the upper extremity.
- b) Identify and explain the attachments, and the function of all inert tissues that comprise each peripheral joint in the upper extremity and surrounding tissue.
- c) Demonstrate the ability to palpate and approximate all the muscle attachments and all bony projections, roughening, or depressions on each bone of the upper extremity and the surrounding tissue.
- d) Demonstrate the ability to palpate and approximate selected landmarks in surface anatomy of the upper extremity.

- e) Demonstrate an understanding of upper extremity differences across populations.
- f) Demonstrate an understanding of the limits of the athletic/exercise therapists' knowledge and how this can influence professional image.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Required:

1. Moore, K.L., Dalley,A.F, Agur, A.M.R. (2018). *Clinically Oriented Anatomy (8th edition)*. Baltimore, MD: Lippincott Williams & Wilkins
2. Kendall, F. P., McCreary, E. K., Provance, P. G., Crosby, R. W., Andrews, P. J., & Krause, C. (2005). *Muscles, Testing and Function: With Posture and Pain (5th Edition)*. Baltimore, MD: Lippincott Williams & Wilkins
3. Biel, A. (2019). *Trail Guide to the Body (6th Edition)*. Boulder, Colorado: Books of Discovery
4. Biel, A. (2019). *Student Workbook – Trail Guide to the Body (6th Edition)*. Boulder, Colorado: Books of Discovery.

Referenced Texts:

- Agur, A.M. R., & Dalley, A. F. (2017). *Grant’s Atlas of Anatomy* (14th edition) Baltimore, MD: Lippincott Williams & Wilkins
- Drake, R. L., Vogl, A. W., Mitchell, A. W. M., Tibbitts, R. M., & Richardson, P. E. (2008). *Gray’s Atlas of Anatomy*. Philadelphia, PA: Churchill Livingstone Elsevier
- Hamill, J., Knutzen, K. M., & Derrick, T.R (2015). *Biomechanical Basis of Human Movement* (4th Edition) Philadelphia, PA: Lippincott Williams & Wilkins
- Lippert, L. S. (2006). *Clinical Kinesiology and Anatomy* (4th Edition). Philadelphia: PA:F.A. Davis Company.
- Martini, F., & Nath, J. L. (2009). *Fundamentals of Anatomy & Physiology*. San Francisco: Pearson/Benjamin Cummings.
- Netter, Frank. (2006). *Atlas of Human Anatomy* (4th Edition) Philadelphia, PA: Saunders Elsevier.
- Tortora, G., & Derrickson, B. (2014). *Principles of Anatomy & Physiology (14th edition)*. John Wiley & Sons.

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

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

Lecture:		Monday	10:00-11:20	CHW 347
		Thursday	10:00-11:20	PISE 329A
Lab:	X01A	Monday	11:30-2:20	LACC 104
	X01B	Tuesday	8:30-11:20	LACC 104

WEEK	TOPIC	LAB TOPIC
Week 1: Jan 6-10	Course Introduction Bones of the Pectoral Girdle	Lab 1: Bones of the Pectoral Girdle & Arm
Week 2: Jan 13-17	Joints of the Pectoral Girdle	Lab 2: Joints of the Pectoral Girdle <i>Lab Assignment Due</i>
Week 3: Jan 20-24	Muscles of the Pectoral Girdle	Lab 3: Muscles of the Pectoral Girdle, Part 1 <i>Lab Assignment Due</i> Lab Quiz
Week 4: Jan 27-31	Muscles of the Arm	Lab 4: Muscles of the Pectoral Girdle, Part 2 <i>Lab Assignment Due</i>
Week 5: Feb 3-7	Bones of the Forearm	Lab 5: Muscles of the Arm <i>Lab Assignment Due</i>
Week 6: Feb 10-14	Joints of the Forearm	Lab 6: Bones of the Forearm <i>Lab Assignment Due</i> Lab Quiz
Week 7	Reading Week Break (Feb 17-21)	
Week 8	Midterm Week (Feb 24-28)	
Week 9: Mar 3-7	Muscles of the Forearm	Lab 7: Joints of the Forearm <i>Lab Assignment Due</i>
Week 10: Mar 10-14	Bones of the Wrist & Hand	Lab 8: Muscles of the Forearm <i>Lab Assignment Due</i>
Week 11: Mar 17-21	Joints of the Wrist & Hand	Lab 9: Bones of the Wrist & Hand <i>Lab Assignment Due</i> Lab Quiz
Week 12: Mar 24-28	Muscles of the Hand	Lab 10: Joints of the Wrist & Hand <i>Lab Assignment Due</i>
Week 13: Mar 31-Apr 4	The Brachial Plexus	Lab 11: Muscles of the Hand <i>Lab Assignment Due</i>
Week 14: Apr 7-11	Arteries & Veins	Lab 12: Brachial Plexus, Arteries, Veins Lab Quiz

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 notice is required. Deadlines can be reviewed on the [CAL exams page](https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams). <https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams>

EVALUATION OF LEARNING

DESCRIPTION	DUE DATE	WEIGHTING
Neurological Assignment	April 11	3%
Lab Quizzes (4 X 3%)	See Above Schedule	12%
Pre-Lab Assignments (10 X 0.5%)	See Above Schedule	5%
Midterm: Written	TBD: <i>Week of Feb 24-28</i>	20%
Midterm: Practical	TBD: <i>Week of Feb 24-28</i>	20%
Final: Written	TBD	20%
Final: Practical	TBD	20%
	TOTAL	100%

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.

<https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf>

Pre-Laboratory Assignments

Assignments include workbook pages, diagrams, and questions related to the upcoming lab. The purpose of these assignments is to review theoretical material to be prepared for hands-on learning in the laboratory setting. There are a total of 10 pre-lab assignments.

Laboratory Quizzes

Lab quizzes include anatomical model identification, diagrams, fill in the blank, and short answer. Quizzes are based on the previous weeks' lab material (see attached schedule). There are a total of 4 quizzes.

Midterm & Final Written Examinations

Written test questions will cover class lectures and assigned readings. Test format will include multiple choice, true/false, matching, diagrams, short answer, and long answer.

Neurological Assignment

A written assignment investigating the brachial plexus along with the upper body dermatomes, myotomes, and reflexes. See D2L for further information.

Practical Examinations

Practical exams consist of students identifying, palpating and testing several selected anatomical of selected structures on a model.

COURSE GUIDELINES & EXPECTATIONS

Professional standards for students:

- Students are expected to exhibit polite, mature, and respectful behaviour in class (lectures, labs, seminars, or practicums) and actively participate as needed.
- Students are expected to conduct themselves in a manner that maximizes the learning of all students.
- Students are expected to come prepared for discussion and/or presentation of material.
- Students are responsible for catching up on any missed material by asking a peer for notes before contacting the instructor.
- Students are expected to dress appropriately for class/lab activities. Please bring clothing and footwear that will allow you to participate fully. Students must change for every lab unless informed in advance. Students who do not come prepared to actively participate in labs may be asked to leave.
- Students will be practicing skills involving direct physical contact (such as palpation, muscle testing, exercise assistance, etc.). Students must refrain from any inappropriate touching. Students with concerns are to speak to the instructor prior to the beginning of the course, or as concerns arise during the semester. There can be no exception to this participation.

Policy on Cell Phones, PDAs, other Electronic Devices:

Cell phones, PDAs, and other electronic devices are not to be used during scheduled class and lab times. Please remove ear buds, headphones, etc. prior to entering the classroom. Please be advised that audio/video recordings and photos of lectures and seminars are prohibited unless valid documentation for accommodations is provided by CAL (Centre for Accessible Learning). YOU MAY NOT RECORD ANY PERSON WITHOUT THEIR CONSENT (VIDEO OR AUDIO/PHOTO CAPTURE ETC.)

Attendance Policy:

Research shows a strong correlation between class attendance and academic success. Given the practical nature of this course, and the need to understand the theory utilized during the labs, lab attendance will be taken. An excused absence includes:

- a) Bonafide intercollegiate trip with supporting documentation.
- b) Permission of instructor prior to absence.
- c) Compassionate reasons.

Exams & Assignments:

The course exams and assignments are pre-scheduled by the instructor and due as outlined in this course outline or as posted on D2L. The final exam will be scheduled by the Registrar's office.

Exams: Midterm and final examinations must be written on the date scheduled. Final examinations may be scheduled at any time during the examination period; therefore, students should avoid making prior travel, employment, or other commitments for this period. All students are expected to write the final exam at the time, date, and location set by the Office of the Registrar. If a student is unable to write an exam through no fault of his, her, or their own, valid documentation must be provided, and it must be discussed with the instructor well in advance of the exam date. If the student is absent for an exam or presentation and has not made arrangements with the instructor in advance, a zero grade will be applied.

Assignments: Papers and/or assignments that are handed in after the due date/time will receive a 10% per day deduction. After the 5th day the assignment will receive a grade of 0%. Papers and/or assignments that are deemed unacceptable by the faculty will be returned and receive an automatic 10% deduction on the grading of said item and will receive a 10% per day deduction thereafter. Failure to turn in an assignment may result in an incomplete final grade being assigned for the course. Reasons that a faculty may deem an item unacceptable include, but are not limited to the following: grammar, spelling, content, punctuation, and inappropriate referencing/citations.

STUDENT RESPONSIBILITY

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

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 camosun.ca/services.

Support Service	Website
Academic Advising	camosun.ca/services/academic-supports/academic-advising
Accessible Learning	camosun.ca/services/academic-supports/accessible-learning
Counselling	camosun.ca/services/health-and-wellness/counselling-centre
Career Services	camosun.ca/services/co-operative-education-and-career-services
Financial Aid and Awards	camosun.ca/registration-records/financial-aid-awards
Help Centres (Math/English/Science)	camosun.ca/services/academic-supports/help-centres
Indigenous Student Support	camosun.ca/programs-courses/iecc/indigenous-student-services
International Student Support	camosun.ca/international
Learning Skills	camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills
Library	camosun.ca/services/library
Office of Student Support	camosun.ca/services/office-student-support
Ombudsperson	camosun.ca/services/ombudsperson
Registration	camosun.ca/registration-records/registration
Technology Support	camosun.ca/services/its
Writing Centre	camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills

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.

COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

Academic Integrity

Students are expected to comply with all College policy regarding academic integrity; which is about honest and ethical behaviour in your education journey. The following guide is designed to help you understand your responsibilities: <https://camosun.libguides.com/academicintegrity/welcome>

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.13.pdf> for Camosun's Academic Integrity policy and details for addressing and resolving matters of academic misconduct.

Academic Accommodations for Students with Disabilities

Camosun College is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging appropriate academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a documented disability and think you may need accommodations, you are strongly encouraged to contact the Centre for Accessible Learning (CAL) and register as early as possible. Please visit the CAL website for more information about the process of registering with CAL, including important deadlines:

<https://camosun.ca/cal>

Academic Progress

Please visit <https://camosun.ca/sites/default/files/2023-02/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 <https://camosun.ca/sites/default/files/2021-05/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <https://camosun.ca/registration-records/tuition-fees#deadlines>.

Grading Policy

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.5.pdf> for further details about grading.

Grade Review and Appeals

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

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 (see

[Medical/Compassionate Withdrawals policy](#)). Please visit <https://camosun.ca/services/forms#medical> to learn more about the process involved in a medical/compassionate withdrawal.

Sexual Violence

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 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 Policy:

<https://camosun.ca/sites/default/files/2021-05/e-2.9.pdf> and camosun.ca/services/sexual-violence-support-and-education.

To contact the Office of Student Support: 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 <https://camosun.ca/sites/default/files/2021-05/e-2.5.pdf> to understand the College's expectations of academic integrity and student behavioural conduct.

Looking for other policies?

The full suite of College policies and directives can be found here: <https://camosun.ca/about/camosun-college-policies-and-directives>

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.