

Anatomy & Cell Biology
Cadaveric Anatomy: Musculoskeletal ANATCELL 4200A

Course Syllabus for Fall 2024



Western University is committed to a **thriving campus**; therefore, your health and wellness matter to us! The following link provides information about the resources available on and off campus to support students: <https://www.uwo.ca/health/> Your course coordinator can also **guide you** to resources and/or services should you need them.

1. Technical Requirements:



Stable internet connection



Laptop or computer

2. Important Dates:



Classes Begin	Reading Week	Classes End	Study day(s)	Exam Period
September 5	October 12–20	December 6	December 7–8	December 9–22

September 30, 2024, is National Day for Truth and Reconciliation and is a non-instructional day
December 2, 2024: Last day to withdraw from a first-term half course without academic penalty

3. Contact Information

Course Coordinator	Contact Information
Dr. Brian Allman	brian.allman@schulich.uwo.ca

Instructor(s) or Teaching Assistant(s)	Contact Information
Dr. Brian Allman – Instructor	brian.allman@schulich.uwo.ca
Ms. Bryn Bhalerao, MSc – Instructor	bbhalera@uwo.ca
Mohammed Al-youzbaki – Teaching Assistant	malyouzb@uwo.ca
Adam Exley – Teaching Assistant	aexley2@uwo.ca

4. Course Description and Design

Delivery Mode: blended; asynchronous lectures and in-person labs

Advanced human anatomy course which integrates lecture material with cadaveric laboratory dissections to explain how physical injuries and clinical impairments are associated with the spatial and functional relationships between the major structures of the upper and lower limbs (bones, muscles, ligaments, innervation and vasculature).

Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

Timetabled Sessions

Component	Date(s)	Time
Lab Session		
Lecture	Asynchronous Online	Asynchronous Online

- Asynchronous lecture recordings must be viewed prior to associated laboratory session
- Attendance at lab sessions is required

All course material will be posted to OWL: <https://westernu.brightspace.com/d2l/login>. Any changes will be indicated on the OWL Brightspace site and discussed with the class.

If students need assistance, they can seek support on the [OWL Brightspace Help](#). Alternatively, they can contact the [Western Technology Services Helpdesk](#). They can be contacted by phone at 519-661-3800 or ext. 83800.

Current versions of all popular browsers (e.g., Safari, Chrome, Edge, Firefox) are supported with OWL Brightspace; what is most important is that you update your browser frequently to ensure it is current. All JavaScript and cookies should be enabled.

5. Learning Outcomes

Upon successful completion of this course, students will be able to:

- Using cadaveric specimens, identify and describe the major structures associated with the upper and lower limbs, including bones, muscles, ligaments, innervation and vasculature.
- Correlate structure and function as it applies to the gross anatomical features.
- Integrate basic physiological and biomechanical concepts to better understand the gross anatomical structure and function.
- Use anatomical knowledge to predict the physical basis of injuries and clinical impairments.

6. Course Content and Schedule

Lecture Topics (Delivered asynchronously; Available on OWL Site)

Lecture	Topic	Instructor
1	Superficial Back & Scapular Region	Allman
2	Vertebral Column & Deep Back Region	Allman
3	Spinal Cord & Peripheral Nervous System	Allman
4	Pectoral Region & Axilla	Allman
5	Brachial Plexus	Allman
6	Shoulder & Elbow Joints	Allman
7	Arm	Allman
8	Posterior Forearm	Allman
9	Anterior Forearm & Carpal Tunnel	Allman
10	Hand	Allman
11	Review	Allman
1	Intro to Lower Limb; Osteology; Hip Joint	Bhalerao
2	Anterior & Medial Thigh	Bhalerao
3	Gluteal Region	Bhalerao
4	Posterior Thigh	Bhalerao
5	Popliteal Fossa; Knee Joint	Bhalerao
6	Posterior Leg	Bhalerao
7	Anterior & Lateral Leg	Bhalerao
8	Ankle Joint	Bhalerao
9	Foot	Bhalerao
10	Review	Bhalerao

Laboratory Sessions (Face-to-Face in DSB 4001)

Week	Dates	Topic	Instructor
1		No Lab Sessions	
2		Superficial Back & Scapular Region	Allman
3		Spinal Cord; Pectoral Region	Allman
4		Brachial Plexus; Arm	Allman
5		Posterior Forearm; Shoulder & Elbow Joints	Allman
6		Anterior Forearm; Carpal Tunnel; Hand	Allman
7		Reading Week (starts October 12th)	
8		Anterior & Medial Thigh; Hip	Bhalerao
9		Posterior Thigh; Gluteal Region	Bhalerao
10		Knee; Popliteal Fossa; Posterior Leg	Bhalerao
11		Anterior & Lateral Leg	Bhalerao
12		Ankle; Foot	Bhalerao
13		Mock Lab Exam (preparation experience)	Allman / Bhalerao
14		Cumulative Lab Practical Exam	Allman / Bhalerao

7. Participation and Engagement

- Students are expected to participate and engage with course content as much as possible
- Students must attend and are expected to participate during lab sessions. If a student misses a lab session, they are required to seek the appropriate documentation (see section 15, below). Missed labs without documentation will result in reduced Professionalism marks, and this reduction is at the discretion of the instructors.

8. Anatomy Lab Information and Rules

Due to security issues, the building will lock down at 6pm each night and will not be open on weekends. You will be advised on OWL about any options for extra lab study hours during the regular workday when the lab is available. You are advised to make the most of your scheduled lab time as extra study time availability may fluctuate and may be limited.

Lab Rules and Regulations:

- No visitors are allowed in the lab. **This is a restricted area and only for those enrolled in the course.**
- Food and/or drink are not allowed in the anatomy lab.
- Lab coats, closed-toe shoes, long pants, 3-layer non-medical masks and safety glasses are required in the anatomy lab.
- Cameras or other recording devices (including phones) are not permitted in the lab.
- Extra study hours outside of your designated lab time will be posted on the blackboard in the lab and on OWL.
- See Haley Linklater about all lab equipment and locker combinations.

Lab Management:

Haley Linklater, Laboratory Supervisor
519-661-2111 ext. 81540
Haley.Linklater@schulich.uwo.ca

Kevin Walker, Lab Technician
519-661-2111 ext. x86831
kwalk56@uwo.ca

9. Assessment and Evaluation

Below is the evaluation breakdown for the course. Any deviations will be communicated.

Assessment	Format	Weighting	Date/Time
Upper Limb (UL) Exam	Written	30%	
UL Professionalism**	In lab Observation & Written Reflection	5%	
LL Professionalism**	In lab Observation & Written Reflection	5%	
Cumulative Lab Exam	Practical (in lab)	30%	
Lower Limb (LL) Exam	Written	30%	

* For each student, the Cumulative Lab Exam will last ≤ 2 hours; the 6-hour window is simply to account for the possibility of scheduling conflicts for some students.

** Upper Limb & Lower Limb Professionalism will be assessed for each lab session and will include: attendance; contribution to dissections; discussion of case studies; and conduct in the lab (i.e. adherence to lab rules, keeping lab and dissection areas clean). Grades will be at the discretion of the

instructors. A short written reflection will also be performed twice during the term as part of the Professionalism component; details will be available on the OWL Brightspace site.

- After an assessment is returned, students should wait 24 hours to digest feedback before contacting their evaluator; to ensure a timely response, reach out within 7 days
- Any grade appeals on exams must be received within 3 weeks of the grade being posted.

Click [here](#) for a detailed and comprehensive set of policies and regulations concerning examinations and grading. The table below outlines the University-wide grade descriptors.

A+	90-100	One could scarcely expect better from a student at this level
A	80-89	Superior work which is clearly above average
B	70-79	Good work, meeting all requirements, and eminently satisfactory
C	60-69	Competent work, meeting requirements
D	50-59	Fair work, minimally acceptable
F	below 50	Fail

Information about missed assessments:

- Missed exams without approved accommodation will result in a grade of zero.
- One make-up exam (per each exam) will be held for students with approved accommodation. The final date and format of the make-up exam will be determined by the instructor. The format could include an oral examination.
- If a make-up exam is missed with documentation, the student will receive an INC and will need to complete the exam the next time the course is offered.
- All course components (e.g., written exams, lab exam and participation) must be completed to pass the course. If these components are missed, the student will receive an INC and will need to complete the missed component the next time the course is offered.

INC (Incomplete Standing): If a student has been approved by the Academic Advising Office (in consultation with the instructor/department) to complete term work at a later date, an INC will be assigned. Students with INC will have their course load in subsequent terms reduced to allow them to complete outstanding course work. Students may request permission from Academic Advising to carry a full course load for the term the incomplete course work is scheduled.

SPC (Special examination): If a student has been approved by the Academic Advising Office to write a Special Examination and the final exam is the only outstanding course component, an SPC will be assigned. If the class has a makeup exam, the student is expected to write the makeup exam. If the class doesn't have a makeup exam or the student misses the makeup exam for reasons approved by the Academic Advising Office, the student will write the exam the next time the course is offered. Outstanding SPCs will reduce the course load for the term the exam is deferred as outlined in [Types of Examinations](#) policy.

10. Communication

- Students should check the OWL Brightspace site every 24–48 hours
- Students should email their instructor(s) and teaching assistant(s)
- Emails will be monitored daily; students will receive a response in 24–48 hours

11. Office Hours

- While it is preferred that student communicate with the instructors during their weekly lab sessions, the instructors are happy to meet with students individually or in groups outside of lab sessions. Please email to set up an appointment.

12. Resources

- All resources will be posted in OWL Brightspace; There is no required textbook.

13. Professionalism & Privacy

Western students are expected to follow the [Student Code of Conduct](#). Additionally, the following expectations and professional conduct apply to this course:

- All course materials created by the instructor(s) are copyrighted and cannot be sold/shared (e.g., Must Knows Facebook group, Course Hero, Chegg, etc.)
- Recordings are not permitted (audio or video) without explicit permission
- Permitted recordings are not to be distributed
- Students may be expected to take an academic integrity pledge before some assessments

Western is committed to providing a learning and working environment that is free of harassment and discrimination. All **students**, staff, and faculty have a role in this commitment and have a responsibility to ensure and promote a safe and respectful learning and working environment. Relevant policies include Western's [Non-Discrimination/Harassment Policy](#) (M.A.P.P. 1.35) and [Non-Discrimination/Harassment Policy – Administrative Procedures](#) (M.A.P.P. 1.35). Any **student**, staff, or faculty member who experiences or witnesses' behaviour that may be harassment or discrimination **must report the behaviour** to the Western's [Human Rights Office](#). Harassment and discrimination can be human rights-based, which is also known as EDI-based, (sexism, racism, transphobia, homophobia, islamophobia, xenophobia, antisemitism, and ableism) or non-human rights-based (personal harassment or workplace harassment).

14. How to Be Successful in this Class

Students enrolled in this class should understand the level of autonomy and self-discipline required to be successful.

1. Invest in a planner or application to keep track of your courses. Populate all your deadlines at the start of the term and schedule your time throughout the course.
2. Make it a daily habit to log onto OWL Brightspace to ensure you have seen everything posted to help you succeed in this class.
3. Follow checklists created on OWL Brightspace or create your own to help you stay on track.
4. Take notes as you go through the lesson material. Keeping handwritten notes or even notes on a regular Word document will help you learn more effectively than just reading or watching the videos.
5. Connect with others. Try forming an online study group and try meeting on a weekly basis for study and peer support.
6. Do not be afraid to ask questions. If you are struggling with a topic, contact your instructor(s) and or teaching assistant(s).
7. Reward yourself for successes. It seems easier to motivate ourselves knowing that there is something waiting for us at the end of the task.

15. Western Academic Policies and Statements

A. Absence from Course Commitments

Students must familiarize themselves with the Policy on [Academic Consideration – Undergraduate Students in First Entry Programs](#)

Students missing course work for medical, compassionate, or extenuating circumstances can request academic consideration by completing a request at the central academic consideration portal. Students are permitted one academic consideration request per course per term **without** supporting documentation. Note that supporting documentation is **always** required for academic consideration requests for examinations scheduled by the office of the registrar (e.g., December and April exams) and for practical laboratory and performance tests (typically scheduled during the last week of the term).

Please note that any academic considerations granted in this course will be determined by the instructor of this course, in consultation with the academic advisors in your Faculty of Registration, in accordance with information presented in this course syllabus. Supporting documentation for academic considerations for absences due to illness should use the [Student Medical Certificate](#) or, where that is not possible, equivalent documentation by a health care practitioner.

Accommodation for Religious Holidays

Students should review the policy for [Accommodation for Religious Holidays](#). Where a student will be unable to write examinations and term tests due to a conflicting religious holiday, they should inform their instructors as soon as possible but not later than two weeks prior to writing the examination/term test. In the case of conflict with a midterm test, students should inform their instructor as soon as possible but not later than one week prior to the midterm.

Special Examinations

A Special Examination is any examination other than the regular examination, and it may be offered only with the permission of the Dean of the Faculty in which the student is registered, in consultation with the instructor and Department Chair. Permission to write a Special Examination may be given on the basis of compassionate or medical grounds with appropriate supporting documents. To provide an opportunity for students to recover from the circumstances resulting in a Special Examination, the University has implemented Special Examinations dates. These dates as well as other important information about examinations and academic standing can be found [here](#).

B. Academic Offenses

Scholastic offences are taken seriously, and students are directed [here](#) to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence.

Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

C. Accessibility Statement

Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Accessible Education (AE) at 661-2111 x 82147 for any specific question regarding an accommodation or review [The policy on Accommodation for Students with Disabilities](#)

D. Correspondence Statement

The centrally administered **e-mail account** provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner. You can read about the privacy and security of the UWO email accounts [here](#).

E. Discovery Credit Statement

Students are permitted to designate up to 1.0 Discovery Credit course (or equivalent) for pass/fail grading that can be counted toward the overall course credits required for their degree program. The details of this policy and the deadlines can be found [here](#).

F. Turnitin and other similarity review software

All assignments will be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between Western University and [Turnitin.com](#).

16. BMSUE Academic Policies and Statements

Cell Phone and Electronic Device Policy (for in-person tests and exams)

The Schulich School of Medicine & Dentistry is committed to ensuring that testing and evaluation are undertaken fairly across all our departments and programs. For all tests and exams, it is the policy of the School that any electronic devices, e.g., cell phones, tablets, cameras, smart glasses, smart watch or iPod are strictly prohibited. These devices **MUST** be left either at home or with the student's bag/jacket at the front of the room and **MUST NOT** be at the test/exam desk or in the individual's pocket. Any student found with one of these prohibited devices will receive a grade of zero on the test or exam. Non-programmable calculators are only allowed when indicated by the instructor. The program is not responsible for stolen/lost or broken devices.

Copyright and Audio/Video Recording Statement

Course material produced by faculty is copyrighted and to reproduce this material for any purposes other than your own educational use contravenes Canadian Copyright Laws. You must always ask permission to record another individual and you should never share or distribute recordings.

Rounding of Marks Statement

Across the Basic Medical Sciences Undergraduate Education programs, we strive to maintain high standards that reflect the effort that both students and faculty put into the teaching and learning experience during this course. All students will be treated equally and evaluated based only on their actual achievement. **Final grades** on this course, irrespective of the number of decimal places used in marking individual assignments and tests, will be calculated to one decimal place and rounded to the nearest integer, e.g., 74.45 becomes 74, and 74.50 becomes 75. Marks **WILL NOT** be bumped to the next grade or GPA, e.g., a 79 will **NOT** be bumped up to an 80, an 84 **WILL NOT** be bumped up to an 85, etc. The mark attained is the mark you achieved, and the mark assigned; requests for mark "bumping" will be denied.

17. Support Services

- Students who are in emotional/mental distress should refer to Mental Health @Western Health <https://www.uwo.ca/health/> for a complete list of options about how to obtain help.
- To connect with a case manager or set up an appointment, please contact support@uwo.ca.
- Other important links:
 - [Academic Advising \(Science and Basic Medical Sciences\)](#)
 - [Appeal Procedures](#)
 - [Registrarial Services](#)
 - [Student Development Services](#)
 - [Student Health Services](#)

Statement on Gender-Based and Sexual Violence

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at:

https://www.uwo.ca/health/student_support/survivor_support/get-help.html.