

**Anatomy & Cell Biology**  
**Cadaveric Anatomy: Musculoskeletal ANATCELL 4200A**

Course Outline for Fall 2025

*This course takes place at Western University, which is located on the traditional territories of the Anishinaabek, Haudenosaunee, Lūnaapéewak, and Chonnonton Nations, on lands connected with the London Township and Sombra Treaties of 1796 and the Dish with One Spoon Covenant Wampum.*

Students who are in emotional and/or mental distress should refer to <https://www.uwo.ca/health/> for a complete list of options about how to obtain help.

**1. Technical Requirements:**



Stable internet connection



Laptop or computer

**2. Important Dates:**

Classes Begin	Reading Week	Classes End	Study day(s)	Exam Period
September 4	November 3–9	December 9	December 10	December 11–22

September 30, 2025: National Day for Truth and Reconciliation; non-instructional day

September 12, 2025: Last day to add or drop a Fall 12-week course

December 1, 2025: Last day to withdraw from a Fall 12-week course without academic penalty

**3. Contact Information**

Course Coordinator	Contact Information

Instructor(s) or Teaching Assistant(s)	Contact Information

#### 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	Tuesday or Thursday	2:30 – 5:30 pm
Lecture	Asynchronous Online	Asynchronous Online

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

All course material will be posted to OWL Brightspace: <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 this 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

### Laboratory Sessions (In-Person in DSB 4001)

**\*See Course website for specific details regarding the Lab content, as well as the associated asynchronous lecture content and self-directed foundational materials that should be viewed prior to attending each lab.**

Week	Dates	Topic	Instructor
1	Sept 4–7	<b>No Lab Sessions</b>	
2	Sept 8–14	Upper Limb – Lab 1	
3	Sept 15–21	Upper Limb – Lab 2	
4	Sept 22–28	Upper Limb – Lab 3	
5	Sept 29–Oct 5	<b>No Lab Session on Sept. 30<sup>th</sup>; Open Lab Hours on Oct. 2<sup>nd</sup></b>	
6	Oct 6–12	Upper Limb – Lab 4	
7	Oct 13–19	Upper Limb – Lab 5	
8	Oct 20–Oct 26	Lower Limb – Lab 1	
9	Oct 27–Nov 2	Lower Limb – Lab 2	
10	Nov 3–9	<b>Reading Week (starts November 3<sup>rd</sup> 12:01 AM)</b>	
11	Nov 10–16	Lower Limb – Lab 3	
12	Nov 17–23	Lower Limb – Lab 4	
13	Nov 24–30	Lower Limb – Lab 5	
14	Dec 1–7	Mock Lab Exam (preparation experience)	
15	Dec 9	<b>Cumulative Lab Practical Exam</b>	

## 7. Participation and Engagement

- ☒ Students are expected to participate and engage with 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 Brightspace 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 course website.
- 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](mailto:Haley.Linklater@schulich.uwo.ca)

Kevin Walker, Lab Technician  
 519-661-2111 ext. x86831  
[kwalker56@uwo.ca](mailto:kwalker56@uwo.ca)

**9. Assessment and Evaluation**

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

\*For each student, the Cumulative Lab Exam will last  $\leq 2$  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 instructor. 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.

Assessment	Format	Weighting	Due Date	Flexibility
Upper Limb (UL) Exam	Written	30%	Oct 24 (7:00 – 9:00 pm)	Not Applicable
UL Professionalism**	In lab Observation & Written Reflection	5%	Observation: weekly UL labs Reflection: due by Oct 20 11:55 pm	Not Applicable
LL Professionalism**	In lab Observation & Written Reflection	5%	Observation: weekly LL labs Reflection: due by Dec 5 11:55 pm	Not Applicable
Cumulative Lab Exam	Practical (in lab)	30%	Dec 9 (2:30 – 8:30 pm)*	Not Applicable
Lower Limb (LL) Exam	Written	30%	TBD (Exam period)	Not Applicable

**Designated Assessment:** Instructors are permitted to designate one assessment per course per term as requiring supporting documentation to receive academic consideration. See below for information on academic consideration policy and missed course work. For this course the following assessment has been designated as requiring supporting documentation:

- **Upper Limb Written Exam, October 24<sup>th</sup> 7:00 – 9:00pm**
- **To avoid confusion... Note that in accordance with Section 15A, both the Lower Limb Written Exam (scheduled by Registrar) and the Cumulative Lab Exam (held in last week of class) also require supporting documentation to receive academic consideration.**

**General information about assessments**

- ☒ 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
- ☒ Assessment re-grading could result in the mark, increasing, decreasing, or remaining the same

- ☒ Prior to the filing of a written request for relief, students must attempt to resolve the concern regarding a mark or grade through informal consultation with the instructor. If the student is dissatisfied with the decision of the instructor or does not receive a decision from the instructor, a written request for relief must be submitted to the Department Chair within three (3) weeks from the date that the mark was issued.

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 late or 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, 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 professionalism) 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.
- ☒ Only one special examination (see below) will be offered in January

**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, which could impact program progression. 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 for the final exam or the student misses the makeup for the final exam for reasons approved by the Academic Advising Office, the student will write the exam the next time the course is offered, which could impact program progression. Outstanding SPCs will reduce the course load for the term the exam is deferred as outlined in [Definitions of 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 likely receive a response in 24–48 hours

## 11. Office Hours

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

## 12. Course Materials

- ☒ All resources will be posted on 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/upload (e.g., Must Knows Facebook group, Course Hero, Chegg, ChatGPT, 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 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/Procedures and Statements

### A. Absence from Course Commitments

#### Medical, Compassionate, or Extenuating Circumstances

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).

Students should also note that the instructor may **designate** one assessment per course per term that requires supporting documentation. This designated assessment is described elsewhere in this document. Academic consideration requests may be denied when flexibility in assessment has already been included. Examples of flexibility in assessment include when there are assessments not required for calculation of the final grade (e.g. 8 out of 10 quizzes) or there is flexibility in the submission timeframe (e.g. 72 hour no late penalty period).

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.

**Policy:** [Academic Consideration – Undergraduate Students in First Entry Programs](#)

**Procedures:** [Student Medical Certificate](#)

#### Religious Holidays

Students should review the policy for Accommodation for Religious Holidays (Appendix 1). 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.

**Policy:** [Accommodation for Religious Holidays](#)

#### 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.

**Policy:** [Definitions of Types of Examinations](#)

## **B. Academic Appeals and Scholastic Offenses**

Students can file a **request for relief from academic decisions** if the request is based on one or more grounds listed in the policy. Requests for relief generally fall into three categories, which are also listed in the policy. All requests for relief must be supported by evidence. A request for relief from academic decisions process was formally referred to as an appeal. Refer to the policy and procedures about further details and timelines.

**Policy:** [Requests for Relief from Academic Decisions](#)

**Procedures:** [Undergraduate Student Academic Requests for Relief](#)

**Scholastic offences** are taken seriously, and students are directed to read the appropriate policy, specifically, the definition of what constitutes a scholastic offence.

**Policy:** [Scholastic Offences](#)

**Procedures:** [Undergraduate Scholastic Offences](#)

Students may **appeal** some academic and scholastic disciplinary decisions by a Dean or their designate, to the Senate Review Board Academic (SRBA).

**Policy:** [Senate Review Board Academic Appeals](#)

**Procedures:** [Senate Review Board Academic Appeals](#)

## **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.

**Policy:** [Academic 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.

## **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.

**Policy:** [Undergraduate Course Credit](#)

**Procedures:** [Discovery Credits](#)

## **F. Statement on the Use of Electronic Devices**

No electronic devices will be allowed during tests and examinations.

## **G. Statement on the Use of Generative Artificial Intelligence (AI)**

Throughout the course, a student's written reflections should reflect their own thoughts and independent written work. Thus, the use of generative AI for these written reflections is strongly discouraged. Overall, by adhering to this recommendation, students can contribute to a responsible and ethical learning environment that promotes true self-reflection and critical thinking, thereby allowing them to produce original written contributions.



## H. Turnitin and other similarity review software

All required papers may 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](https://www.turnitin.com).

## 16. BMSUE Academic Policies and Statements

### A. 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 and this will be documented as a Scholastic Offence. Non-programmable calculators are only allowed when indicated by the instructor. The program is not responsible for stolen/lost or broken devices.

### B. Copyright and Audio/Video Recording Statement

Course materials produced by faculty are 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.

### C. 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** in this course are rounded to the nearest whole number based on the first decimal place. For example, a grade of 74.49 or lower will be rounded to 74, whereas 74.50 or higher will be rounded to 75.

Marks **WILL NOT** be arbitrarily increased to the next grade or GPA, e.g., a 79 will **NOT** be increased to an 80, and 84 **WILL NOT** be increased to an 85, etc. The mark attained is the mark you achieved, and the mark assigned; requests for arbitrary mark increasing will be denied. Marks will be assigned based on assessments in the syllabus and no extra work or tasks will be assigned to increase a mark.

**Course grade** rounding provisions, as described above, differ from cumulative and term averages. Cumulative and term averages will be calculated to two decimal places and rounded to the nearest whole number with .45 rounded up, for the purposes of admission to and progression in modules, scholarship retention, and Dean's Honour List.

**Policy:** [Marks/Grades; Definitions of Grades; Grading Scale for Undergraduate Students](#)

## 17. Support Services

Students who are in emotional/mental distress should refer to Mental Health @Western <https://www.uwo.ca/health/> for a complete list of options about how to obtain help.

### 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 the following website:

[https://www.uwo.ca/health/student\\_support/survivor\\_support/get-help.html](https://www.uwo.ca/health/student_support/survivor_support/get-help.html)

To connect with a case manager or set up an appointment, please contact [support@uwo.ca](mailto:support@uwo.ca).

Other important links:

- [Academic Advising \(Science and Basic Medical Sciences\)](#)
- [Learning Development and Success](#)
- [Office of the Registrar](#)
- [Wellness & Wellbeing](#)
- [Western USC Services](#)

### Appendix 1: Western University Academic Policies and Procedures

The policies and procedures listed in this syllabus are outlined in the table below. In some cases, a policy does not include an accompanied procedures document.

Academic Policy	Name of Policy/Procedure	Links
General Policy	Marks/Grades; Definitions of Grades; Grading Scale for Undergraduate Students	<a href="#">Policy</a>
General Policy	Structure of the Academic Year	<a href="#">Policy</a>
Registration, Progression, Graduation	Course Numbering Policy, Essay Courses, and Hours of Instruction	<a href="#">Policy</a>
Registration, Progression, Graduation	Undergraduate Course Credit	<a href="#">Policy</a> • <a href="#">Procedures</a>
Examinations	Definitions of Types of Examinations	<a href="#">Policy</a>
Examinations	Evaluation of Academic Performance	<a href="#">Policy</a>
Examinations	Examination Conflicts	<a href="#">Policy</a>
Rights and Responsibilities	Academic Accommodation for Students with Disabilities	<a href="#">Policy</a>
Rights and Responsibilities	Accommodation for Religious Holidays	<a href="#">Policy</a>
Rights and Responsibilities	Policy on Academic Consideration – Undergraduate Students in First Entry Programs	<a href="#">Policy</a> • <a href="#">Procedures</a>
Rights and Responsibilities	Requests for Relief from Academic Decisions (Undergraduate)	<a href="#">Policy</a> • <a href="#">Procedures</a>
Rights and Responsibilities	Requests for Relief from Academic Decisions (Graduate)	<a href="#">Policy</a> • <a href="#">Procedures</a>
Rights and Responsibilities	Scholastic Offences (Undergraduate)	<a href="#">Policy</a> • <a href="#">Procedures</a>
Rights and Responsibilities	Senate Review Board Academic Appeals	<a href="#">Policy</a> • <a href="#">Procedures</a>