

Department of Anthropology, University of Toronto Mississauga
 ANT334H5F Human Osteology
 Fall 2024

Course Title	Human Osteology
Lecture times & format	In-Person Lectures Tuesdays, 10:00 – 11:00 am, DH 3000
Practicals	Group 1: Tuesdays, 11:00 am – 2:00 pm, DV 2047 Group 2: Tuesdays, 2:00 pm – 5:00 pm, DV 2047
Course website	https://q.utoronto.ca/courses/365209
Instructor	Dr. Creighton Avery (she/her/hers)
Email	creighton.avery@utoronto.ca
Office	HSC354
Office hour times & format	In person: Thursdays, 1:30-2:30pm Virtual: By appointment
Teaching Assistants	TBD
Required reading/textbook	White, T. D., & Folkens, P. A. (2005). <i>Human Bone Manual</i> . Burlington: Elsevier Academic Press
Course description	In this course, students are given hands-on experience in the identification of the normal anatomy of the adult human skeleton with accompanying muscle function. Students will learn how to identify and side individual bones of the human skeleton. Metrical variation, growth and development, bone histology, and methods of individual identification are introduced.
Learning outcomes (LO)	By the end of the course students should be able to: <ol style="list-style-type: none"> 1. Distinguish bone from non-osseous material. 2. Identify the major bones and key features of the human skeleton. 3. Side complete and incomplete bones. 4. Describe the development of bones and biological basis of bones. 5. Discuss limitations of existing osteological methods.
Course assessments	Mnemonic Device (6%), October 1, 2024 (11:59pm) A mnemonic is a memory prompt to help you remember challenging information. Each student will create one mnemonic from a list of possible options, e.g., the bones of the orbit in the order they articulate with one another. The mnemonic may take any form you like (e.g., diagram, song, video, acrostic, etc.). With your permission, the most helpful mnemonics will be posted on Quercus for other

	<p>students to use as a study aid. This will help you achieve LO 2, 3, and 4.</p> <p>Weekly Lab Challenges (3% x 8 = 24%), due throughout the semester Ten labs will be offered during the semester, covering different aspects of the human skeleton. After completing the hands-on activities (during assigned lab time), complete the corresponding write up and submit it by the end of the corresponding class. Your top 8 out of a possible 10 labs will contribute to your final grade, but you're welcome to complete all ten. This will help you achieve LO 1, 2, 3, 4, and 5, throughout the semester.</p> <p>Post-Cranial Bell Ringer (25%), during lab on October 22, 2024 This one-hour, 25-station bellringer will test your application of osteological knowledge through the use of fragmentary and damaged bone. Students will be required to determine if the materials are bone, identify bones, features, landmarks, etc., and side the bone. This will help you achieve LO 1, 2, and 3.</p> <p>Written Test (20%), during lecture on November 5, 2024 The written test will cover lecture content from Week 1 to Week 7 (September 3 to October 15, inclusive). The exam will include true/false, multiple choice, fill-in-the-blank, and short answer questions. This will help you achieve LO 4 and 5.</p> <p>Cranial Bell Ringer (25%), during lab on November 26, 2024 This one-hour, 25-station bellringer will test your application of osteological knowledge through the use of fragmentary and damaged bone. Students will be required to determine if the materials are bone, identify bones, features, landmarks, etc., and side the bone. This will help you achieve LO 1, 2, and 3.</p>
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COURSE OUTLINE

Course Outline

Lectures will be delivered in class, with opportunities for students to ask questions and seek clarification. Slides will also be available on Quercus. To support your learning, a

range of optional activities (readings, videos, webpages, etc.) will also be available on Quercus.

Labs will involve hands-on experience with human skeletons to learn the bones of the body, working in pairs or small groups.

Week	Date	Lecture	Labs
1	Sept 3	Introductions	Directional Terms
2	Sept 10	Bone Biology	The Upper limb
3	Sept 17	Bone Growth	The Pectoral Girdle
4	Sept 24	Joints and Connections	The Vertebral Column
5	Oct 1	Excavating Human Remains	The Thoracic Cage
6	Oct 8	Taphonomy	The Pelvic Girdle
7	Oct 15	Osteobiographies	The Lower limb
8	Oct 22	Review	Post-Cranial Bell Ringer
-	Oct 29	<i>Reading Week: No Class</i>	-
9	Nov 5	Written Test	The Cranium
10	Nov 12	Sex and Stature	Facial Bones
11	Nov 19	Age and Ancestry	The Dentition
12	Nov 26	Review; Using Osteology	Cranial Bell Ringer

For Fall 2024 “F” term courses: November 6, 2024 is the deadline to drop a F course from academic record and GPA.

IMPORTANT COURSE INFORMATION

USE OF GENERATIVE ARTIFICIAL INTELLIGENCE

Generative Artificial Intelligence (AI), and specifically foundational models that can create writing, computer code, and/or images using minimal human prompting, are proliferating and becoming ubiquitous.

In this course, students can use Generative AI in certain instances or specific ways. See below for some examples. If you are unclear if you may use AI in a particular way in this course, please reach out to the instructor to discuss options.

- Students may use artificial intelligence tools for creating an outline for an assignment, but the final submitted assignment must be original work produced by the student alone
- Students may use artificial intelligence tools for critiquing and editing as assignment for purposes of revision, but the first draft must be original work produced by the student alone
- Students may use artificial intelligence for gathering information across sources and assimilating it for understanding, but the assignment must be the original work produced by the student

ASSIGNMENT SUBMISSION POLICY

Select assignments in this course will be submitted electronically through Quercus, including Weekly Reading Responses, Grant Proposal, Grant Application, and Peer Evaluations.

Normally, students will be required to submit their course essays to the University's plagiarism detection tool for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their essays to be included as source documents in the tool's reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of this tool are described on the Centre for Teaching Support & Innovation web site (<https://uoft.me/pdt-faq>).

If students choose to opt-out of submitting their essays to the University's plagiarism detection tool, they must notify the instructor. Students who choose to opt-out of using the plagiarism detection tool must do so in writing by email to the course instructor before **September 12, 2024**. Assignments without plagiarism detection submission must be accompanied by an outline, first draft and an annotated bibliography to demonstrate the paper's originality.

POLICY FOR MISSED AND LATE ACADEMIC TERM WORK

LATE ASSIGNMENTS

I employ a compassionate late policy, where late penalties are not deducted for two days after the due date. If I have not heard from you to discuss why your assignment is late, a late penalty of 5% per day, including weekend days, will be applied after that point.

MISSED TESTS

Students who miss a term test will be assigned a zero, unless discussions with the instructor to determine alternative arrangements for a make-up test. Grades will not be re-allocated should a make-up test not be possible.

SPECIAL CONSIDERATION FOR MISSED AND LATE ACADEMIC TERM WORK

Students who miss term work (tests, assignments, labs) because of a temporary absence for a legitimate reason will receive reasonable academic consideration, such as the opportunity to write a make-up or to have the work graded without a late penalty being applied, without the need to provide supporting documentation.

Legitimate reasons for absence include:

- Illness or injury
- Personal or family emergencies
- Bereavement
- University sponsored events

The following are not considered legitimate reasons for absence:

- Personal social obligations
- Travel unrelated to the student's academic program
- Technological issues
- Avoidance of assessment or deadlines

To receive academic consideration for legitimate reasons, **within 72 hours of the missed deadline or test** students must use the [UTM Anthropology departmental process for special consideration](#).

Students with departmental approval for special consideration will be given an extended deadline with no late penalty or the opportunity to write a make-up.

ACADEMIC INTEGRITY

Academic integrity is essential to the pursuit of learning and scholarship in a university, and to ensuring that a degree from the University of Toronto is a strong signal of each student's individual academic achievement. As a result, the University treats cases of cheating and plagiarism very seriously. The [University of Toronto's Code of Behaviour on Academic Matters](#) outlines the behaviours that constitute academic dishonesty and the processes for addressing academic offences.

It is your responsibility to understand the [Code of Student Conduct](#) and the [Code of Behaviour on Academic Matters](#)

Potential offences include, but are not limited to:

In papers and assignments:

- Using someone else's ideas or words without appropriate acknowledgement.
- Submitting your own work in more than one course without the permission of the instructor.
- Making up sources or facts.
- Obtaining or providing unauthorized assistance on any assignment.

On tests and exams:

- Using or possessing unauthorized aids.
- Looking at someone else's answers during an exam or test.
- Misrepresenting your identity.

In academic work:

- Falsifying institutional documents or grades.
- Falsifying or altering any documentation required by the University, including (but not limited to) doctor's notes.

On sharing instructor's intellectual property covered by the Canadian Copyright Act:

- Posting test, essay, or exam questions to message boards or social media.

- Creating, accessing, and sharing assessment questions and answers in virtual course groups.

Lesser-known academic offenses:

- Accessing unauthorized resources (search engines, chat rooms, Reddit, etc.) for assessments.
- Using technological aids (e.g. software) beyond what is listed as permitted in an assessment.
- The unauthorized use of Artificial Intelligence (AI) tools to assist in academic work.

Plagiarism: It shall be an offence for a student knowingly:

(a) to forge or in any other way alter or falsify any document or evidence required by the University, or to utter, circulate or make use of any such forged, altered or falsified document, whether the record be in print or electronic form;

(b) to use or possess an unauthorized aid or aids or obtain unauthorized assistance in any academic examination or term test or in connection with any other form of academic work;

(c) to personate another person, or to have another person personate, at any academic examination or term test or in connection with any other form of academic work;

(d) to represent as one's own any idea or expression of an idea or work of another in any academic examination or term test or in connection with any other form of academic work, i.e. to commit plagiarism (for a more detailed account of plagiarism, see Appendix "A")

(e) to submit, without the knowledge and approval of the instructor to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course or program of study in the University or elsewhere;

(f) to submit any academic work containing a purported statement of fact or reference to a source that has been concocted.

(cited from the Code of Behaviour on Academic Matters)

All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behaviour on Academic Matters. If you have questions or concerns about what constitutes appropriate academic behaviour or appropriate research and citation methods, you are expected to seek out additional information on academic integrity from your instructor or from other [institutional resources](#).

COURSE COMMUNICATION

Please use your utoronto.ca email address to ensure that your email messages are not filtered out by spam software and include "**ANT334**" in the subject line. I will try to reply to all appropriate emails within 48 hours on business days.

NOTICE OF VIDEO RECORDING AND SHARING

This course, including your participation, may be recorded on video and made available to students in the course for viewing remotely and after each session. Course videos and materials belong to your instructor, the University, and/or other sources depending on the specific facts of each situation, and are protected by copyright. Do not download, copy, or share any course or student materials or videos without the explicit permission of the instructor. For questions about recording and use of videos in which you appear please contact your instructor.

CLASSROOM CONDUCT

To be respectful of all individuals in the class, please follow the following guidelines:

- All cellphones must be silent during the lectures.
- You are expected to abide by the [University of Toronto's code of student conduct](#).
- Students who do not abide by the code of conduct will be asked to leave the lecture.

FINAL MARKS

Final marks are tentative until approved by the Department of Anthropology Chair, the Office of the Dean, and recorded in the Office of the Registrar.

[Final Grades \(UTM Academic Calendar\)](#)

RE-GRADING POLICY

A student who believes that their written term work has been unfairly marked may ask the person who marked the work for re-evaluation. Students have up to one month from the date of return of an item of term work to inquire about the mark. If the student is not satisfied with this re-evaluation, they may appeal to the instructor in charge of the course if the work was not marked by the instructor (e.g., was marked by a TA). Such re-marking may involve the entire piece of work, and may raise or lower the mark.

See [Re-marking Pieces of Term Work \(UTM Academic Calendar\)](#) for further details.

STUDENT CONDUCT

If a student wishes to record, photograph, or otherwise reproduce lecture presentations, course notes or other similar materials provided by instructors, they must obtain the instructor's written consent beforehand. Otherwise, all such reproduction is an infringement of copyright and is absolutely prohibited. In the case of private use by students with disabilities, the instructor's consent will not be unreasonably withheld.

See [Taping / Recording / Photographing Lectures is Not Allowed](#) (UTM Academic Calendar) for further details.

SUPPORT AND RESOURCES

ACCESSIBILITY ACCOMMODATION

Students with diverse learning styles and needs are welcome in this course. If you have a disability/health consideration that may require accommodations, please consult with [UTM's Accessibility Services](#) at the beginning of your courses so that the proper supports are in place.

If there are any additional concerns with regard to this course, please reach out to the instructor in advance to discuss how we might work together to ensure a successful semester.

EQUITY, HUMAN RIGHTS, AND RESPECT FOR DIVERSITY

At the University of Toronto, we strive to be an equitable and inclusive community, rich with diversity, protecting the human rights of all persons, and based upon understanding and mutual respect for the dignity and worth of every person. We seek to ensure to the greatest extent possible that all students and employees enjoy the opportunity to participate as they see fit in the full range of activities that the University offers, and to achieve their full potential as members of the University community.

See [U of T Statement on Equity, Diversity, and Excellence](#) for further information.

RELIGIOUS OBSERVANCE ACCOMMODATION

The University of Toronto welcomes and includes students, staff and faculty from a broadly diverse range of communities and backgrounds. The University community comprises one of the most diverse campus populations anywhere. Students, staff and faculty have a wide range of backgrounds, cultural traditions and spiritual beliefs. With reference to the University's commitment to human rights as articulated in the [Statement on Human Rights](#) and in accordance with the accommodation principles of the Ontario [Human Rights Code](#), this policy is concerned with accommodations for students with respect to observances of religious holy days.

See [U of T Statement on Religious Observances, Policy on Scheduling of Classes and Examinations and Other Accommodations for Religious Observances](#) for more information.

STUDENT HEALTH & WELL-BEING SUPPORT

For resources to support studental health and well-being, visit [Student Health & Well-being Support \(UTM Health & Counselling Centre\)](#).

ACADEMIC SKILLS CENTER

The Robert Gillespie Academic Skills Centre (RGASC) is UTM's hub for learning and teaching. Visit [Academic Skills Centre](#) to learn about academic skill development available for students.