

**ANTHROP 3FA3 FORENSIC ANTHROPOLOGY
Winter 2022**

Course Contacts

Instructor: Dr. L. Elizabeth Doyle

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Office: TBA

Office Hours: Friday Afternoons. In Person or Virtual. Book with Calendly: <https://calendly.com/dr-doyle>

CLASS TIME: MoWe 11:30AM - 12:20PM ; Fr 1:30PM - 2:20PM

CLASSROOM: KTH B135

DELIVERY MODE: P/V (in person with synchronous online delivery via Echo360 livestreaming.).

PLEASE NOTE: This is a "flipped" course: lectures will be posted on Avenue2Learn for asynchronous access and class time will be devoted to active learning (virtual labs, demos) and discussion. **It is expected that students will review lectures and readings prior to attending class.**

Email Contact: Emails to the instructor **must come from your McMaster email address and include ANTHROP 3FA3** in the subject line.

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Course Description

Forensic sciences have enjoyed a steady representation in popular television shows, movies, and books for several decades. Professional forensic anthropologists are involved in recovering, identifying, and analyzing human remains that come to light as unexplained deaths, in crime scenes, and in mass disasters. Beginning with a survey of human skeletal anatomy and the death investigation process this course will explore the roles that anthropologists play in forensic and medicolegal investigations, and how they derive evidence from human remains.

***Content warning:** The assigned readings, lecture materials, and laboratory materials all include images of skeletonized and fleshed human remains, some of them with graphic detail. Efforts have been made to exercise discretion in which images are displayed, depending on the pedagogical aims of each lesson. We will discuss principles of ethical practice in forensic anthropology and will observe them throughout the term.

Course Objectives

By the end of the course students should be able to:

- Recognize basic human skeletal anatomy;
- Identify specific elements of the human skeleton that are important to the process of building a biological profile of an unknown person.
- Describe the steps and explain the rationale of the Forensic Anthropological Protocol
- Describe the evidentiary standards attendant on forensic anthropology and identify how they apply to research and practice.

- Describe fundamental techniques for documenting and recovering human remains, and estimating the post-mortem interval based on their condition.
- Describe and apply fundamental techniques in forensic anthropology to assembling a broad description of an unknown person from their remains
- Distinguish between adult and juvenile, and male-like vs female-like skeletal remains based on key features.
- Identify key features of perimortem trauma distinguish them from characteristic non-traumatic modifications.
- Describe the process of identification and reconciliation
- Describe and give examples of how the concept of “care” for the deceased applies in the context of forensic investigative work.

Required Materials and Texts

Required readings other than the textbook will be posted to the course website

Christensen, Angi M., Nicholas V. Passalacqua, and Eric J. Bartelink, eds. 2019. *Forensic Anthropology* (Second Edition). Academic Press.

<http://www.sciencedirect.com/science/article/pii/B9780128157343000014>

France, Diane. 2014. Distinguishing Human from Non-Human Bone. In: *Advances in Forensic Human Identification*. Mallett et al., eds. CRC Press, pp. 81–126

Holobinko, Anastasia 2012. Forensic Human Identification in the United States and Canada: A Review of the Law, Admissible Techniques, and the Legal Implications of Their Application in Forensic Cases. *Forensic Science International* 222(1): 394.e1-394.e13.

A number of documentaries will also be provided and will be discussed in lecture and tutorial. These are also testable where indicated.

Class Format & Instructor Availability

Lectures

This is a **flipped *In Person/Virtual*** course. A flipped course means that recorded lectures will be provided asynchronously ahead of class, and class time will be devoted to active learning, such as discussions and research activities. **Class sessions will be broadcast synchronously on Echo360, and will be recorded**

and made available for asynchronous access after class time has ended. On occasion, other applications such as Zoom may be used.

While fully asynchronous participation is possible in this course, it is strongly recommended that you do your best to take advantage of opportunities to connect with your professor, TA, and classmates in real time.

Lectures will be recorded and posted to each week's module on Avenue2Learn by 23:59h Eastern on the preceding Sunday.

Accessibility

- Echo360 provides a transcript.
- Additional accommodations will be arranged as needed.
- You can also individually arrange live transcription of class time meetings by setting up a free account with Otter.ai

Virtual lab activities may additionally make use of the following free web-accessible platforms:

- Sketchfab: <https://sketchfab.com/> (for 3D models)
- Google Drive: Google Docs, Sheets, Slides, and Jamboard

Instructor and TA Contact

Dr Doyle is available by appointment during weekly office hours. Please use the Calendly link at the top of the syllabus to book a time.

Additional contact is available through the following avenues:

- Via email (please reserve for emergencies and personal communications - these will be adhered to strictly).
- Via the course's MS Teams channel or direct chat. Tag us using @username for direct notification.

Teaching Assistants and Tutorials

This course has 2 teaching assistants who will assist with grading and course management. You will be assigned a TA to help guide you through this course.

Who is my TA? TA names and contact information will be posted on Avenue. Please visit your TA with any questions about assignments/grading of assignments.

Course Evaluation – Overview

1. Labs (10%), pre-midterm labs due by February 18, 23:59h; post-midterm labs due by April 12, 23:59h Eastern
2. Case Study 1 (15%), due Friday Feb 18 by 23:59h.
3. Midterm Quiz (25%), 60 minutes time availability, administered online on Friday March 04.
4. Case Study 2 (15%), due April 02 by 23:59h Eastern.
5. Final Exam (35%), held online during registrar's exam period.

Note: All assessments are to be held and submitted online through Avenue2Learn unless stated otherwise.

Course Evaluation – Details

Laboratory Activities (10%):

Practice-based learning is crucial in anthropology, and particularly so in the applied discipline of forensic anthropology. You will complete a number of virtual 'lab' activities, each exploring an aspect of forensic anthropology. Answers will be provided and discussed during synchronous sessions. All labs are completion-based (pass-fail) formative assessments that will be submitted through Avenue2Learn. We will cover lab results during class time. **Students are responsible for attending class sessions so that they can check over their own answers** and ask questions if needed.

Case Studies (2 x 15% = 30%): see due dates in Overview, above.

You will complete two online case study assignments. You will be given a case scenario and then answer a series of written questions about how you would go about investigating that case and interpreting the evidence. **Citations and bibliography in Chicago Author-Date style are expected.** To be submitted through A2L.

Midterm Quiz (25%): see date in Overview, above.

The midterm test will consist of multiple choice and short answer questions. It will be held online and must be completed in one 1h time block from the time you begin the test. Questions will be offered two at a time with no backtracking allowed. The test will be limited open-book, with slides,

textbook, and notes as permitted aids. This is an individual assessment, to be completed by yourself.

Final Exam (35%): held during the Registrar's exam period.

The final exam will consist of multiple choice and written answer questions. The exam will be cumulative, but more heavily weighted towards material covered after the midterm. Questions will be offered two at a time with no backtracking allowed. The exam will be open-book, with permitted aids being your textbook, slides, and notes. This is an individual assessment, to be completed by yourself.

Email and Tech Support Contact

Dr Doyle's Email Commitment

I will do my best to provide a timely response to email communications. During the week, I will generally get back to you within 48h. Emails sent during weekends or after 5pm will generally not receive a response until at least the next business day.

Rules for Email Contact

ANTHROP 3FA3 can have up to 180 students enrolled at once. Please help me provide timely responses to email communications by **reserving email for real emergencies**. Questions about course content, deadlines, assignments, and so on, can generally be answered by referring to the guide documents provided. Clarification questions should be addressed to **your TA, in office hours, or in class**.

Email that does not follow these rules may not receive a timely response.

- Use your **McMaster email address** for all course-related communications. (This will avoid your message being caught in a spam filter.)
- **ALWAYS put ANTHROP 3FA3 in the subject line.** (Seriously, this is critical.)
- Reserve direct email for personal concerns ONLY (that is: personal emergencies).
- Show that you have tried to troubleshoot first! Troubleshooting is an incredibly valuable professional skill - don't underestimate it! (See below under "Tech Support and Other Matters")
- **For all questions about course material /exams/etc, avenues of communication are:**
 - Come to a live class session with Dr Doyle!

- Talk to your TA during their office hours!
- Use Calendly to book an office hour appointment with Dr Doyle

Tech Support and Other Matters

Learning online can be challenging - plan ahead for technical issues! You may be learning new technologies or working with technological barriers like a spotty internet connection. Although Avenue 2 Learn is a robust platform with a dedicated support team, **it is normal to encounter the occasional technological problem. This is an opportunity for you to practice the valuable professional skill of troubleshooting!**

What To Do if You Encounter Technical Problems

Do not panic! Follow the below steps to troubleshoot:

1. **Document the problem:** ESPECIALLY if you are attempting to submit an assignment on deadline. Describe it in detail and **take screenshots that include your desktop clock as a time-stamp.**
2. Check the **Avenue To Learn Support Wiki:**
<https://wiki.mcmaster.ca/avenue/>
3. Check the manufacturer's help documents!
<https://documentation.brightspace.com/EN/learners/learners.htm> A2L is McMaster's local version of Brightspace Desire2Learn (D2L), therefore many of its functions and quirks will be the same.
4. Contact the Avenue2Learn help desk directly (during business hours):
<https://avenue.mcmaster.ca/support.html>
5. If all else has failed ... proceed to contact your professor or TA!

Weekly Course Schedule and Required Readings

Sessional Dates:

<https://academiccalendars.romcmaster.ca/content.php?catoid=44&navoid=9034>

PLEASE NOTE: This is a "flipped" course: lectures will be posted on Avenue2Learn for asynchronous access and class time will be devoted to active learning (virtual labs, demos) and discussion. It is expected that students will review lectures and readings prior to attending class.

WEEK: 1

DATES (Mon/Fri): 2022-01-10 to 14

TOPIC: Introductions and Getting Oriented ; Intro to Death Investigations and the The Forensic Anthropology Protocol

READINGS: No readings

NOTES /DEADLINES: na

WEEK: 2

DATES (Mon/Fri): 2022-01-17 to 2022-01-21

TOPIC: Human Osteology and Odontology

READINGS: Chapter 2, Human Osteology and Odontology

NOTES /DEADLINES: **Add/Drop Deadline: Jan 18;**

WEEK: 3

DATES (Mon/Fri): 2022-01-24 to 2022-01-28

TOPIC: Assessing Medicolegal Significance: Is It Human? Is it Recent?

READINGS: France 2014; Christensen et al. Chapt 4 - Assessing Medicolegal Significance

NOTES /DEADLINES: na

WEEK: 4

DATES (Mon/Fri): 2022-01-31 to 2022-02-04

TOPIC: Forensic Taphonomy and Estimating the Post-Mortem Interval (PMI)

READINGS: Christensen et al. Chapter 5. Forensic Taphonomy

NOTES /DEADLINES: na

WEEK: 5

DATES (Mon/Fri): 2022-02-07 to 2022-02-11

TOPIC: Forensic Archaeology - search, documentation, and recovery of remains

READINGS: Christensen et al. Chapter 6: Forensic Archaeology

NOTES /DEADLINES: **FRIDAY Feb 11: Case Study 1 goes live**

WEEK: 6

DATES (Mon/Fri): 2022-02-14 to 2022-02-18

TOPIC: Evidentiary Standards in Forensic Anthropology; Skeletal Documentation Methods and Technology

READINGS: Chapter 3, Skeletal Examination and Documentation Methods ; Holobinko, 2012

NOTES /DEADLINES: **Case Study 1 - DUE Friday Feb 18 by 23:59h.**

WEEK: 7

DATES (Mon/Fri): 2022-02-21 to 2022-02-25

TOPIC: NO CLASS - READING WEEK

READINGS: na

NOTES /DEADLINES: na

WEEK: 8

DATES (Mon/Fri): 2022-02-28 to 2022-03-04

TOPIC: PRE-MIDTERM REVIEW Monday/Wednesday.

READINGS: na

NOTES /DEADLINES: Midterm Test: held online, FRIDAY March 04.

WEEK: 9

DATES (Mon/Fri): 2022-03-07 to 2022-03-11

TOPIC: Human Variation in Size and Shape (1: Body Size and Robustness)

READINGS: Christensen et al. 2019. Chapter 11. Stature estimation

NOTES /DEADLINES: na

WEEK: 10

DATES (Mon/Fri): 2022-03-14 to 2022-03-18

TOPIC: Human Variation in Size and Shape (2: Sex*)

READINGS: Christensen Chapter 8, Sex Estimation

NOTES /DEADLINES: *Content Note: Sex estimation methods pertain to sex as assigned at birth, generally in people who are cis, or whose bodies did not transition until after puberty. We will also discuss the complexities involved in inferring gender from skeletal remains, particularly for people whose gender identity does not conform to a traditional binary cis model.

Last day to drop without failure: Friday, March 18

WEEK: 11

DATES (Mon/Fri): 2022-03-21 to 2022-03-25

TOPIC: Age Estimation

READINGS: Christensen et al. Chapter 10, Age Estimation

NOTES /DEADLINES: na

WEEK: 12

DATES (Mon/Fri): 2022-03-28 to 2022-04-01

TOPIC: Trauma vs Taphonomy

READINGS: Christensen et al. Chapter 13, Analysis of Skeletal Trauma

NOTES /DEADLINES: **FRIDAY April 01: Case Study 2 goes live**

WEEK: 13

DATES (Mon/Fri): 2022-04-04 to 2022-04-08

TOPIC: Identification: Reconciliation of Antemortem and Postmortem Files

READINGS: Christensen et al. Chapters 12 and 14 (Individual Skeletal Variation and Personal Identification)

NOTES /DEADLINES: **Case Study 2 DUE April 08 by 23:59h Eastern.**

WEEK: 14

DATES (Mon/Fri): 2022-04-11 to 2022-04-12

TOPIC: Course Review

READINGS: na

NOTES /DEADLINES: CLASSES END

EXAM PERIOD Final exam conducted during registrar's exam period.

Course Policies

Assignment Submissions

It is expected that all assignments will be submitted as PDF files to that assignment's dropbox on Avenue to Learn (A2L) **Assignments submitted by e-mail will not be accepted.**

If you run into technical problems when submitting an assignment or exam, take a screenshot that shows your submission screen and desktop clock as a timestamp! Then visit the Avenue to Learn Support page for help.

Late Submissions

You have a 48h grace period before late penalties are applied for written assignments only (does not apply to tests or exams). This means that you can submit your assignment up to 48h after a deadline, without losing points.

A late penalty of 2 points (2% of the total course grade) will be deducted from an assignment's total per 24-hour period (or part thereof) for assignments.

Absences, Missed Work, Illness

It is your responsibility to complete all work by the deadline at which it is to be handed in. Extensions will not be available without one of: a McMaster Student Absence Forms (MSAF) if applicable; OR written certification approved by your Faculty office. If you experience an interruption to your attendance that warrants relief, please try to alert Dr Doyle as soon as possible to arrange make-up work.

Please note that policies concerning the use of MSAFs (McMaster Student Absence Forms) have changed (see <https://www.mcmaster.ca/msaf/>).

Note that MSAF's cannot be used for:

- **Any coursework worth 25% or more.**
- Absences lasting longer than 3 days
- Any work that you have already attempted or completed (including *opening a quiz on Avenue2Learn*)
- Final exams

If you require relief for an assessment worth 25%+ or for longer than 3 days, you must contact your faculty office, with documentation, if you wish to apply for a faculty-issued MSAF.

Please note – **all deferred and makeup exams will be in essay format.**

Assignment Reappraisal

Your assignments are marked by TAs using a grading rubric provided by the instructor, which is based on the criteria outlined in each assignment guide.

Grades are not awarded based on demonstrated effort, but on demonstrated achievement. It is normal for a student's average grade in university classes to be somewhat lower than their average grade in high school.

If you disagree with a grade that you have received, please follow the below steps:

1. **Wait 24h after viewing your mark.** Re-read your assignment with a cooler head and consider the rubric, your TA's feedback, and grading criteria outlined in the assignment guide.
2. **Seek more feedback:** If you require more information about your grade, contact the grading TA and ask for further feedback.
3. **Formally request a re-appraisal:** Write a 300-word (max) statement, explaining why you believe the grader's assessment was mistaken, and submit it to Dr Doyle along with the original assignment (with TA feedback). **Your statement must directly reference the rubric.** We assess your work based on its demonstrated quality, not based on effort expended. Thus, we need you to engage directly with the feedback you have been given in order to show that the original grading was incorrect.
4. Dr Doyle will re-assess your work using the same rubric as the TA grader.

Please note that requesting a re-appraisal does not guarantee that your mark will go up. Most re-appraisals do not produce a different mark than the original assessment, and some produce a lower mark.

If, after reappraisal by the instructor, you still disagree with an assessment, you may apply for a **re-read** via the McMaster Secretariat website:

<https://registrar.mcmaster.ca/re-read/>

Grades

Marking rubrics and final grades will be based on the McMaster University grading scale:

MARK	GRADE	Qualitative Scale (Unofficial)
90-100	A+	In general, quantitative & categorical grade ranges reflect the following qualitative scale:
85-90	A	
80-84	A-	80% to 100% (A- to A+): Exceptional performance: strong evidence of original thinking; good organization; capacity to analyze and synthesize; superior grasp of subject matter with sound critical evaluations; evidence of extensive knowledge base.
77-79	B+	
73-76	B	
70-72	B-	68% to 79% (B- to B+): Competent performance: evidence of grasp of subject matter; some evidence of critical capacity and analytic ability; reasonable understanding of relevant issues; evidence of familiarity with the literature.
67-69	C+	
63-66	C	50% to 67% (D to C+): Adequate performance: understanding of the subject matter; ability to develop solutions to simple problems in the material; acceptable but uninspired work, not seriously faulty but lacking style and vigour.
60-62	C-	
57-59	D+	
53-56	D	00% to 49% (F): Inadequate performance: little or no evidence of understanding of the subject matter; weakness in critical and analytic skills; limited or irrelevant use of the literature.
50-52	D-	
0-49	F	

Avenue to Learn & Lecture Recording

In this course we will be using Avenue to Learn. Some real-time lecture sessions may be recorded. Attendees will be warned prior to recording.

Students should be aware that, when they access the electronic components of this course, private information such as first and last names, user names for the McMaster e-mail accounts, and program affiliation may become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in this course will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure please discuss this with the course instructor.

Turnitin.com

In this course we will be using a web-based service (Turnitin.com) to reveal plagiarism in written work. Students will be expected to submit their work electronically to Turnitin.com and in hard copy so that it can be checked for

academic dishonesty. Students who do not wish to submit their work to Turnitin.com must still submit a copy to the instructor. No penalty will be assigned to a student who does not submit work to Turnitin.com. All submitted work is subject to normal verification that standards of academic integrity have been upheld (e.g., on-line search, etc.). To see the Turnitin.com Policy, please visit: www.mcmaster.ca/academicintegrity.

University Policies

Academic Integrity Statement

You are expected to exhibit honesty and use ethical behavior in all aspects of the learning process. Academic credentials you earn are rooted in principles of honesty and academic integrity.

Academic dishonesty is to knowingly act or fail to act in a way that results or could result in unearned academic credit or advantage. This behavior can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university.

It is your responsibility to understand what constitutes academic dishonesty. For information on the various types of academic dishonesty please refer to the Academic Integrity Policy, located at www.mcmaster.ca/academicintegrity.

The following illustrates only three forms of academic dishonesty:

1. Plagiarism, e.g. the submission of work that is not one's own or for which credit has been obtained.
2. Improper collaboration in group work.
3. Copying or using unauthorized aids in tests and examinations.

Academic Accommodation of Students with Disabilities

Students who require academic accommodation must contact Student Accessibility Services (SAS) to make arrangements with a Program Coordinator. Academic accommodations must be arranged for each term of study. Student Accessibility Services can be contacted by phone 905-525-9140 ext. 28652 or e-mail sas@mcmaster.ca. For further information, consult McMaster University's Policy for [Academic Accommodation of Students with Disabilities](#).

Religious, Indigenous and Spiritual Observances (RISO)

The University recognizes that, on occasion, the timing of a student's religious, Indigenous, or spiritual observances and that of their academic obligations may conflict. In such cases, the University will provide reasonable academic accommodation for students that is consistent with the Ontario Human Rights Code.

Please review the [RISO information for students in the Faculty of Social Sciences](#) about how to request accommodation.

Faculty of Social Sciences E-mail Communication Policy

Effective September 1, 2010, it is the policy of the Faculty of Social Sciences that all e-mail communication sent from students to instructors (including TAs), and from students to staff, must originate from the student's own McMaster University e-mail account. This policy protects confidentiality and confirms the identity of the student. It is the student's responsibility to ensure that communication is sent to the university from a McMaster account. If an instructor becomes aware that a communication has come from an alternate address, the instructor may not reply at his or her discretion.

Privacy Protection

In accordance with regulations set out by the Freedom of Information and Privacy Protection Act, the University will not allow return of graded materials by placing them in boxes in departmental offices or classrooms so that students may retrieve their papers themselves; tests and assignments must be returned directly to the student. Similarly, grades for assignments for courses may only be posted using the last 5 digits of the student number as the identifying data. The following possibilities exist for return of graded materials:

1. Direct return of materials to students in class;
2. Return of materials to students during office hours;
3. Students attach a stamped, self-addressed envelope with assignments for return by mail;
4. Submit/grade/return papers electronically.

Arrangements for the return of assignments from the options above will be finalized during the first class.

Online Elements

This course includes on-line elements (e.g. e-mail, Avenue to Learn (A2L), LearnLink, web pages, capa, Moodle, ThinkingCap, etc.). Students should be aware that, when they access the electronic components of a course using these elements, private information such as first and last names, user names for the McMaster e-mail accounts, and program affiliation may become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in a course that uses on-line elements will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure please discuss this with the course instructor.

Online Proctoring

Some courses may use online proctoring software for tests and exams. This software may require students to turn on their video camera, present identification, monitor and record their computer activities, and/or lock/restrict their browser or other applications/software during tests or exams. This software may be required to be installed before the test/exam begins.

Copyright and Recording

Students are advised that lectures, demonstrations, performances, and any other course material provided by an instructor include copyright protected works. The Copyright Act and copyright law protect every original literary, dramatic, musical and artistic work, including lectures by University instructors

The recording of lectures, tutorials, or other methods of instruction may occur during a course. Recording may be done by either the instructor for the purpose of authorized distribution, or by a student for the purpose of personal study. Students should be aware that their voice and/or image may be recorded by others during the class. Please speak with the instructor if this is a concern for you.

Course Modification

The instructor and university **reserve the right to modify elements of the course during the term**. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email and course websites weekly during the term and to note any changes.

Conduct Expectations

As a McMaster student, you have the right to experience, and the responsibility to demonstrate, respectful and dignified interactions within all of our living, learning and working communities. These expectations are described in the [Code of Student Rights & Responsibilities](#) (the "Code"). All students share the responsibility of maintaining a positive environment for the academic and personal growth of all McMaster community members, **whether in person or online.**

It is essential that students be mindful of their interactions online, as the Code remains in effect in virtual learning environments. The Code applies to any interactions that adversely affect, disrupt, or interfere with reasonable participation in University activities. Student disruptions or behaviours that interfere with university functions on online platforms (e.g. use of Avenue 2 Learn, WebEx or Zoom for delivery), will be taken very seriously and will be investigated. Outcomes may include restriction or removal of the involved students' access to these platforms.

Extreme Circumstances

The University reserves the right to change the dates and deadlines for any or all courses in extreme circumstances (e.g., severe weather, labour disruptions, etc.). Changes will be communicated through regular McMaster communication channels, such as McMaster Daily News, A2L and/or McMaster email.

