

DEPARTMENT OF ANTHROPOLOGY AND ARCHAEOLOGY
COURSE OUTLINE: FALL 2020
ANTH 309: HUMAN EVOLUTION
GFC HOURS (3-1)

Lectures: Online via Zoom MW 3:30 – 4:45pm [synchronous online delivery]

Labs: Thursdays and Fridays in ES 614 [in-person delivery]

Instructor: Dr. Susanne Cote

Office: ES 750

Tel: (403) 220-8190

Email: scote@ucalgary.ca

Office Hours: Mondays 1-3pm

[office hours are on Zoom or in person]

TA: Nicola Guthrie

Email: nichola.guthrie@ucalgary.ca

TA: Kaley Powell

Email: kaley.powell@ucalgary.ca

TA: Pamela Narváez

Email: pamela.narvaez@ucalgary.ca

Pre-requisites: ANTH 201, or permission of instructor

COURSE DESCRIPTION:

How did our species evolve and who are our fossil ancestors? We will work chronologically and thematically through the last six million years surveying the major phases of human evolution, with an emphasis on understanding how specific human adaptations evolved and why. In laboratories, students will learn how to identify fossils and how to reconstruct behavior from anatomical and paleontological evidence by studying fossil casts.

REQUIRED READINGS:

- Readings from the scientific literature as indicated in the Schedule – links provided on D2L.
- Several of the readings come from The Nature Education Knowledge Project, Biological Anthropology Section - <http://www.nature.com/scitable/knowledge>

Recommended Readings:

- Keep your textbook from ANTH 201. It will be a helpful reference!

REQUIRED TECHNOLOGY and EQUIPMENT:

- You must have a **mask** that covers your mouth and nose for lab sections. Please see <https://ucalgary.ca/risk/emergency-management/covid-19-response/mask-faq> for information on the campus-wide mask policy. **Exemptions to the mask policy can only be granted by SAS (Student Accessibility Services).**
- You must have a working computer with a broadband internet connection, an updated browser, webcam, and microphone to participate in lectures.
- You must have access to D2L, Word and PowerPoint for online examinations.

COURSE OBJECTIVES:

Upon completion of this course, students should be able to:

- Know the basic outline of human evolution over the past 7 million years, including major evolutionary developments and important fossil sites and specimens.
- Understand what questions are asked and addressed in the fossil record, how we 'know' what happened in the past, and the limitations of the fossil record.
- Describe how paleoanthropologists identify and study new fossil finds.
- Use basic fossil morphology to interpret function and behavior of extinct hominin species.

COVID-19 INFORMATION AND MODIFICATIONS TO COURSE NORMS:

- Please see the "COVID-19" section of the D2L website for additional information.
- The plan for ANTH 309 is to run this course as close to its normal format as possible.
- Lectures will be online, delivered synchronously via Zoom. Dr. Cote will attempt to give her 'normal' lectures including demonstrations with fossils and incorporating some discussion and student question/answers. Both the lecture slides and a recording of the lecture will be made available after each class.
- Labs will be delivered in person. You are required to attend your assigned laboratory section each week, including the first week orientation and final lab examination. You must bring and wear a mask for your entire lab. Disposable latex gloves will be provided. Additional safety precautions and procedures are detailed in the "ANTH 309 Labs & COVID-19" handout, available on D2L.
- The midterm and final examinations will be held online, adhering to all of the policies for COVID-19 outlined in the calendar: www.ucalgary.ca/pubs/calendar/current/g.html. That means that you will have a 24-hour window in which to write each exam, and you will receive 50% extra time on these exams to account for any technological issues.
- Because we have been approved for in-person labs, it's essential that we all work as a team to minimize the risk of exposing ourselves to COVID-19. I am asking students to engage in responsible behaviours both inside and outside of the classroom to maximize the chance that we will get through the semester with no COVID-19 related illness.
- There is a possibility that the University of Calgary will be required to cancel the in-person component of this course part way through the semester. I ask for your flexibility and understanding if this is the case. In that event, labs will move online and the format of the labs and laboratory examination will be subject to change.

COURSE REQUIREMENTS AND GRADING:

Lab Assignments – 30% - in person weekly throughout the semester [see attached schedule]

- Please note that attendance at all laboratory sessions is **mandatory**.
- Each of the assignments is equally weighted and will be worth ~3% of your final grade (30%/9 labs = 3.3% each). The purpose of the labs is to give students the opportunity to examine fossils and fossil casts first hand and learn how paleontologists study fossil remains. All work needed to successfully complete the lab assignment will be done **in class**.

Mid-term Examination – 25% - October 21st online

- This is a 75-minute exam (plus COVID-19 accommodation of 50% extra time).
- This exam will cover lectures, laboratories, and readings assigned since the beginning of term through Week 7 of class (inclusive).
- The format will include a mixture of different types of short and medium length answer questions as well as an essay question. There will be more than one option for the essay.
- This is an open book exam in that you may use your class notes, lecture slides, and assigned readings. You may NOT look answers up online or work with other students. That would be considered Academic Misconduct.

Laboratory Examination – 10% - December 3rd and 4th in person in your normal lab section

- The lab exam will take place during your last scheduled lab section (December 3rd or 4th).
- The lab exam will consist of a set of 'stations', each with a short question to be answered.
- Students will work individually for the lab exam, rotating around to all of the stations on the exam. Each station will be timed. No notes or other study materials may be used during the examination.
- Students who have attended all labs and made sure that they **understand what they are seeing in lab** should do well.

Final Examination – 35% - Registrar scheduled (December 12th – 23rd) online

- This is a 2-hour exam (plus COVID-19 accommodation of 50% extra time).
- The final examination will cover ALL lectures, laboratories, and assigned readings for the term. The format will be similar to the midterm with a mixture of different question types.
- This is an open book exam in that you may use your class notes, lecture slides, and assigned readings. You may NOT look answers up online or work with other students. That would be considered Academic Misconduct.

****Please note that no extra credit or 'make up' work is available in this class****

**** Please note that the assessment plan for lab assignments and the lab exam will be subject to change if in-person labs are suspended during the semester****

Department of Anthropology and Archaeology Grading Scheme:

A+	95 – 100%	B	75 – 79.9%	C-	59 – 62.9%
A	90 – 94.9%	B-	71 – 74.9%	D+	55 – 58.9%
A-	85 – 89.9%	C+	67 – 70.9%	D	50 – 54.9%
B+	80 – 84.9%	C	63 – 66.9%	F	< 50%

COURSE POLICIES:

Classroom behavior and attendance:

- The most important thing is to be respectful and supportive of other students.
- Even though we will be online for lectures, your conduct matters. Please find a quiet space and turn off your cell phone and any other electronic devices/background noises on your computers to avoid distracting other students.
- Lecture slides and recordings of the lecture will be posted AFTER class, not before. You should come to lecture prepared to take notes. Please note that reading the lectures slides alone will NOT be sufficient to get a good grade in this class. All material from lectures is testable, and lecture slides will not have everything you need to know.

Labs:

- Most importantly, you must obey all of the COVID-19 safety procedures. Please see the COVID section of the D2L course website for all of the information you need.
- You must always attend your assigned lab section. You cannot attend a different section one week to suit your schedule.
- You should **bring a copy of your class notes** with you to lab each week.
- Students are encouraged to seek help and advice from the TA or other students as often as possible. You should **NOT be trying to look answers up online!** This is not a good way to be successful with the laboratory assignments.
- All work necessary to complete the lab exercises will be done IN CLASS. There will be no 'homework' from labs and you will submit your lab exercises at the end of class on the day of that lab. Lab assignments will be returned the following week during your next lab.
- Labs are **MANDATORY** and may only be missed in the case of illness or personal emergency. You must contact your TA as soon as possible (preferably before class) if you need to miss a lab. The **only** opportunity to make-up missed laboratory exercises will be at the end of term during Lab 10.

Exam and Grading Policies:

- Missed exams automatically receive a score of zero. In the event of an emergency or illness, the instructor **MUST** be notified **BEFORE** the exam if at all possible.
- The instructor at their discretion may transfer the percentage weight for the test to the final examination or set another test, etc. Make up exams may be in any format (including oral examination); performance on make-up exams is often poorer. Please note that deferral of the final exam requires Registrar approval and cannot be approved by the instructor.
- Exams grades will be posted on D2L as quickly as possible. Exams will not be returned to students. If you wish to see your exam, please come to office hours (on Zoom or in person).
- If you have questions about the grading of your exam or assignment, please approach Dr. Cote (exams) or the TA (labs) as soon as possible. After consultation with the teaching staff, you may dispute a grade that you have received by submitting a written statement within two weeks of receiving the grade.

Communication Guidelines:

- The best place to ask questions is IN CLASS or during office hours. Please take the opportunity to talk with the instructor and your TA whenever possible.
- Questions during lectures are welcome, so please just raise your hand. If something doesn't make sense to you, it probably didn't make sense to other students either!
- I always prefer to talk IN PERSON with students whenever possible. I will answer questions over email, however due to the volume of emails I receive I cannot commit to answering email questions immediately. It may take up to 2 business days (48 hours), so do not send questions last minute.
- I reserve the right to share questions and answers transmitted over email on D2L or in class if the answers are pertinent to everyone in the class. This saves time, and ensures that all students have access to the same information as they prepare for assignments and exams.
- Before emailing a question, please make sure that it hasn't already been addressed in the course outline, assignment handouts, or on D2L!

UNIVERSITY POLICIES AND INFORMATION:

Principles of Conduct

The University Calendar includes a statement on the principles of conduct expected of all members of the university community (including students, faculty, administrators, any category of staff, practicum supervisors, and volunteers), whether on or off university property. This statement applies in all situations where members of the university community are acting in their university capacities. All members of the university community have a responsibility to familiarize themselves with the principles of conduct statement, which is available at: www.ucalgary.ca/pubs/calendar/current/k.html.

Plagiarism, Cheating, and Student Misconduct

The University of Calgary is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect.

Academic dishonesty is not an acceptable activity at the University of Calgary, and students are **strongly advised** to read the Student Misconduct section in the University Calendar at: www.ucalgary.ca/pubs/calendar/current/k-3.html. Often, students are unaware of what constitutes academic dishonesty or plagiarism. The most common are (1) presenting another student's work as your own, (2) presenting an author's work or ideas as your own without adequate citation, and (3) using work completed for another course. Such activities will not be tolerated in this course, and students suspected of academic misconduct will be dealt with according to the procedures outlined in the calendar at: <https://ucalgary.ca/policies/files/policies/student-academic-misconduct-procedure.pdf>

For students wishing to know more about what constitutes plagiarism and how to properly cite the work of others, the Department of Anthropology and Archaeology recommends that they

attend Academic Integrity workshops offered through the Student Success Centre:
<https://www.ucalgary.ca/student-services/student-success/learning/academic-integrity>

Instructor Intellectual Property

Information on Instructor Intellectual Property can be found at
<https://www.ucalgary.ca/policies/files/policies/Intellectual%20Property%20Policy.pdf>

Freedom of Information and Protection of Privacy

Freedom of Information and Protection of Privacy (FOIP) legislation in Alberta disallows the practice of having students retrieve assignments from a public place, such as outside an instructor's office, the department office, etc. Term assignments will be returned to students individually, during class or during the instructor's office hours; if students are unable to pick up their assignments from the instructor, they must provide the instructor with a stamped, self-addressed envelope to be used for the return of the assignment.

Guidelines for Zoom Sessions

Zoom is a video conferencing program that will allow us to meet at specific times for a "live" video conference, so that we can have the opportunity to meet each other virtually and discuss relevant course topics as a learning community.

To help ensure Zoom sessions are private, do not share Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published with the instructor's permission.

The use of video conferencing programs relies on participants to act ethically, honestly and with integrity; and in accordance with the principles of fairness, good faith and respect (as per the Code of Conduct). When entering Zoom or other video conferencing sessions (such as MS Teams), you play a role in helping create an effective, safe and respectful learning environment. Please be mindful of how your behavior in these sessions may affect others. Participants are required to use names officially associated with their UCID (legal or preferred names listed in the Student Centre) when engaging in these activities. Instructors/moderators can remove those whose names do not appear on class rosters. Non-compliance may be investigated under relevant University of Calgary conduct policies (e.g. Student Non Academic Misconduct Policy). If participants have difficulties complying with this requirement, they should email the instructor of the class explaining why, so the instructor may consider whether to grant an exception, and on what terms. For more information on how to get the most out of your Zoom sessions visit: <https://elearn.ucalgary.ca/guidelines-for-zoom/>.

If you are unable to attend a Zoom session, please contact your instructor to arrange an alternative activity for the missed session (e.g., to review a recorded session). Please be prepared, as best as you are able, to join class in a quiet space that will allow you to be fully

present and engaged in Zoom sessions. Students will be advised by their instructor when they are expected to turn on their webcam (for group work, presentations, etc.).

The instructor may record online Zoom class sessions for the purposes of supporting student learning in this class – such as making the recording available for review of the session or for students who miss a session. Students will be advised before the instructor initiates a recording of a Zoom session. These recordings will be used to support student learning only and will not be shared or used for any other purpose.

Academic Accommodations

It is the student's responsibility to request academic accommodations, according to the university policies and procedures listed in the University Calendar.

The student accommodation policy can be found at:

https://www.ucalgary.ca/policies/files/policies/student-accommodation-policy_0.pdf

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf.

Students needing an accommodation based on a protected ground other than disability should communicate this need, preferably in writing to their instructor or the Department Head (email: pcdawson@ucalgary.ca).

Copyright Legislation

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright <https://www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright-policy.pdf> and requirements of the copyright act (<https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>) to ensure they are aware of the consequences of unauthorised sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Act.

Wellness and Mental Health Resources

The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness, and academic success and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support, or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, <https://www.ucalgary.ca/wellnesscentre/services/mental-health-services>) and the Campus Mental Health Strategy website (<http://www.ucalgary.ca/mentalhealth/>). Students requiring assistance are encouraged to email the Student at Risk line if they or others appear to

need wellness assistance: sar@ucalgary.ca. For a more immediate response, please call: 403-210-9355 and select option #2.

Contact Information for Student and Faculty Representation

- Student Union VP Academic 403-220-3911, suvpaca@ucalgary.ca
- Students Union Representatives for the Faculty of Arts – 403-220-3913, arts1@su.ucalgary.ca, arts2@su.ucalgary.ca, arts3@su.ucalgary.ca, arts4@su.ucalgary.ca
- Student Ombuds Office information can be found at: www.ucalgary.ca/ombuds/

Campus Safewalk

Campus Security, in partnership with the Students' Union, provides the Safewalk service, 24 hours a day, to any location on Campus, including the LRT station, parking lots, bus zones, and university residences. Contact Campus Security at 220-5333 or use a help phone, and Safewalkers or a Campus Security officer will accompany you to your campus destination.

Teaching Evaluations / USRIs (Universal Student Ratings of Instruction)

At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. **Your responses make a difference, please participate!** Website: <http://www.ucalgary.ca/usri/>

Emergency Evacuation Assembly Points: In the event of an emergency that requires evacuation, please refer to the following link to become familiar with the assembly points for the class: <https://ucalgary.ca/risk/emergency-management/evac-drills-assembly-points/assembly-points>.

CLASS SCHEDULE:

***Lecture topics and readings will be adjusted throughout the semester!*

Date	Topic	Readings
Week 1		
September 9	Course Introduction; Why Study Human Evolution?	
Sept 10 & 11	LAB 1: Orientation and Safety	
Week 2		
September 14	How do we know what we know about human evolution?	Peppe and Deino, 2013 (N.Ed)
September 16	Last Common Ancestor – History and Expectations	Kivell and Schmidt 2009**
Sept 17 & 18	LAB 2: Basic Human Anatomy	
Week 3		
September 21	Bipedalism	
September 23	Early hominins – Basic Info and Morphology	Su 2013 (N.Ed)
Sept 24 & 25	LAB 3: Earliest Hominins	
Week 4		
September 28	Early hominins – Interpretations	Gibbons 2009**
September 30	Early <i>Australopithecus</i> – Basic Info and Morphology	Schrein 2016 (N. Ed); Ward and Hammond 2016 (N.Ed)
Oct 1 & 2	LAB 4: Lucy	
Week 5		
October 5	Late <i>Australopithecus</i>	Berger et al 2010**
October 7	Australopiths – Adaptations I	Smith and Alemseged 2013 (N.Ed)
Oct 8 & 9	LAB 5: Gracile Australopithecines	
Week 6		
October 12	THANKSGIVING MONDAY – NO CLASS	
October 14	<i>Paranthropus</i>	Constantino 2013 (N.Ed)
Oct 15 & 16	LAB 6: Robust Australopithecines (<i>Paranthropus</i>)	
Week 7		
October 19	Australopiths – Adaptations II and MIDTERM REVIEW	Spoor 2015**

October 21	MIDTERM EXAM	
Oct 22 & 23	NO LABS THIS WEEK	
Week 8		
October 26	Early <i>Homo</i> – the Habilines and Erectines	
October 28	Early <i>Homo</i> – Variation in Erectines	Gibbons 2013**
Oct 29 & 30	LAB 7: <i>Homo</i> - Habilines and Erectines	
Week 9		
November 2	Early <i>Homo</i> – Diets and Migration	Pobiner 2013 (N.Ed)
November 4	Muddle in the Middle – Middle Pleistocene Hominins	Bae 2013 (N.Ed)
Nov 5 & 6	LAB 8: <i>Homo</i> – Erectines and Heidelbergs	
NOV 9 – 13 - READING BREAK – NO LECTURES OR LABS THIS WEEK		
Week 10		
November 16	Early <i>Homo</i> – Recent Complications	
November 18	Modern Humans and Neanderthals - Morphology	
Nov 19 & 20	LAB 9: Neanderthals and modern humans	
Week 11		
November 23	Neanderthals – Behaviour and extinction	Havarti 2013 (N.Ed); Monnier 2012 (N.Ed)
November 25	Genetics and Human Evolution	
Nov 26 & 27	LAB 10: Make up labs and review of lab materials	
Week 12		
November 30	Modern Humans	Tryon and Bailey 2013 (N.Ed)
December 2	The Hobbit: <i>Homo floresiensis</i>	Aiello 2010**; Baab 2012 (N.Ed)
Dec 3 & 4	LAB EXAM	
Week 13		
December 7	Taking a Step Back – Paleoecology and Behaviour	
December 9	Course Synthesis and FINAL EXAM REVIEW	McNulty 2016 (N.Ed)
No Labs	End of Classes	
December 12-23	Final Exam (to be scheduled by the Registrar)	