

De Anza College
Anthropology Department
ANTH 001L, Physical Anthropology Lab, Fall 2020

Course and Contact Information

Instructor:	Amanda Kadkly
Office Location:	Online
Email:	kadklyamanda@fhda.edu
Office Hours:	M/W 12:30 – 1:30 pm
Class Days/Time:	Online Asynchronous

COURSE DESCRIPTION:

ANTH 1L: Introduction to biological aspects of humans. A bio-cultural and an evolutionary approach is used to understand human variation and human evolution. Issues and topics will include, human variation and its adaptive significance, biological and behavioral evolution of humans, comparative primate anatomy and behavior, evolutionary theory, and the impact of cultural, technological and environmental change on human biology and behavior.

I'm Amanda Kadkly, and I am excited to work with you this quarter! In this lab course, we will be exploring human and primate variation within an evolutionary framework. This is a scientific course with roots in evolutionary biology, primatology, and paleoanthropology.

Specifically, this course will examine the foundations of life and evolutionary theory, primate behavior and the fossil record, and human bio-cultural evolution over the last sixty million years. Students will learn the principles of evolutionary theory and how the study of human evolutionary history, adaptation, and variation plays a fundamental role in the evolutionary processes that affect the human species. In addressing our understanding of the human condition, students will be challenged to think critically, interpret and assess the validity of scientific methodologies, examine quantitative data, and engage in class discussions. I hope these experiences will allow you to apply the material we cover to your own life. Welcome to class! ☺

Course Justification: This course is a major preparation requirement in the discipline of anthropology for both CSU and UC. It meets a general education requirement for De Anza, CSUGE and IGETC. Anthropology has four major subfields and this course is an introduction to one of them - which is biological anthropology.

Student Learning Outcome:

Students completing this course will achieve a fuller understanding of (a) how to think scientifically, (b) how evolution works, (c) humans as primates, (d) human evolutionary history, and (e) human variation.

- Students will apply scientific, evolutionary, holistic and a multidisciplinary approach to understand human biology and behavior.
- Students will analyze human biological diversity as a response to physical, biotic, socio-cultural and biological factors.
- Students will evaluate biological and behavioral similarities and differences between humans and non human primates.
- Evaluate human biology and culture as a response to 7 million years of evolutionary process.

COURSE OBJECTIVES:

- A. Recognize the immense scope of the multi-faceted discipline of anthropology and examine the interrelationships between basic areas of inquiry: physical anthropology, cultural anthropology, archaeology/prehistory, linguistic anthropology and applied anthropology.
- B. Examine the basic conceptual ideas in physical anthropology concerning the scientific method, the theory of evolution, the role of culture and the determinants of primate behavior.
- C. Examine the biological background for physical anthropology in terms of biochemistry, genetics, adaptation, and molecular biology. Apply the understanding of evolutionary theory to medicine.
- D. Assess the primatological information about the living primates by comparing primate anatomy, behavior, gender roles, social organization, reproduction and ecology and by noting their diversity, classification and geographic distribution.
- E. Analyze the fossil record of humanity by examining the evidence, questions, hypotheses, and controversies concerning human evolution in the light of current information on genetics, evolutionary processes, molecular evidence of evolution, and anatomy and behavior of living primates.
- F. Examine the emergence and transformations of human culture over time, recognizing the various ancient cultural sources for modern human society.
- G. Evaluate the importance of the environment in human success and evolution; Critically analyze the past and present impact of the environment on human populations and predict possible future outcomes for our species based on the present trends in environmental change.

COURSE REQUIREMENTS:

Required Text:

Laboratory Manual and Workbook for Biological Anthropology (1st Edition)

ISBN: 978-0393912913

Author(s): Sabrina Agarwal and K. Elizabeth Soluri

Published by: W.W. Norton & Company

Assignments:

Course materials such as syllabus, handouts, notes, assignment instructions, assignment grades, etc. can be found on Canvas at <https://deanza.instructure.com/login>. All of the lecture materials will be posted under Modules.

Exams: There are 2 open-book exams that will be taken on Canvas (both non-cumulative). If you have any concerns about accommodations, please discuss this with me ahead of time so that accommodations can be made. Please do not make travel plans that will conflict with the exams, and be aware that students must take all exams to pass this course. For final exam schedule, see <http://www.deanza.edu/calendar/final-exams.html>.

Exam questions will test your knowledge of course concepts and material, as well as your ability to apply this knowledge to novel situations and examples. I truly believe in your success as a student, so I will provide study guides and practice questions to help you grasp the material. Please remember, if you have any questions, concerns, or comments, to let me know right away. I welcome any feedback you're willing to offer.

Labs: Various lab assignments will be completed for each class period. Students will need access to Excel or Google Sheets to complete some of these activities. Each lab activity must be submitted on Canvas for credit.

Anthropology Assignment: Students will work in small groups to complete these assignment (there are a variety of options to choose from). Instructions will be provided on Canvas.

Online Format: Lectures will be posted on Canvas each week on Mondays. Since the course is asynchronous, you can review the material and complete assignments at your own pace. All labs and Anthro Assignments will be due on Fridays by 11:59 pm unless otherwise specified.

GRADING:

Grades will be based on the following (each is graded on a scale of 100):

Exams (200 points) Exam 1 Exam 2	=	40%
Labs (200 points) 10 Labs	=	40%
Anthro Assignment (100 points) AA 1 AA 2	=	20%
Total (500 points)		100%

Grading is as followed:

A	B	C	D	F
97% - 100% = A+	87-89% = B+	77-79% = C+	67-69% = D+	Below 60% = F
93-96% = A	83-86% = B	73-76% = C	63-66% = D	
90-92% = A-	80-82% = B-	70-72% = C-	60-62% = D-	

Make-up Work

It is important to maintain a system of fairness to students who complete work on-time in this course. Therefore, only students with a valid, *documented* excuse will be able to take an exam late or submit an assignment late. An assignment submitted after the due date will incur a penalty of 20% off the maximum score for every late day (including non-class days and weekends).

Classroom Protocol

Please refer to the following guidelines:

- All students must adhere to De Anza’s [Academic Integrity Policies](https://www.deanza.edu/policies/academic_integrity.html) (https://www.deanza.edu/policies/academic_integrity.html). Students must obtain the instructor’s permission if they wish to record lectures or distribute materials from the class.
- Check Canvas and your De Anza email regularly for announcements and updates.
- Assignments need to be submitted on Canvas. Security threats are a concern, so I do not accept assignments attached in emails.
- Remember that we are all in this together! Please be respectful to others during class discussions (see “netiquette” guidelines on Canvas).
- As mentioned, you all are here to learn how to engage and correspond with one another in a professional, academic environment. Now is a good time to learn about effective communication practices! Refer to

the email professionalism guidelines on Canvas, and please note that I respond to emails/Canvas messages during business hours (9 am – 5 pm). I try to respond within 24-48 hours.

- If you have questions about the content, other students may have similar questions and could benefit from this information. I encourage you to make use of the Q/A thread on Canvas.
- With all that said, I enjoy facilitating discussions in an engaging and comfortable environment. This works best when students are prepared, courteous, and respectful! 😊

Resources

If you need accommodations because of a disability, or if you need to make special arrangements, please visit De Anza's Disability Support Programs and Services Division (<https://www.deanza.edu/dsps/index.html>).

Student Services <https://www.deanza.edu/services/>

Psychological Services <https://www.deanza.edu/psychologicalservices/>

Tutoring <https://www.deanza.edu/studentsuccess/>

ANTH 001L / Physical Anthropology Lab: Course Schedule

This schedule is subject to change with fair notice; any changes will be announced and posted to Canvas.

	Date	Topics	Readings, Deadlines
1	9/21 – 9/25	Introduction to Physical Anthropology Physical anthropology, the scientific method, statistics	Reading: Lab 1 Zoom 1: 9/21 at 2:30 – 3:30 pm PST
2	9/28 – 10/2	Examining Variation Natural selection, cell biology and DNA	Reading: Lab 2
3	10/5 – 10/9	Genetics Mendelian genetics, examinations of at-risk populations	Reading: Lab 3
4	10/12 – 10/16	Evolutionary Theory Modern synthesis of evolution, population genetics, cladistics	Reading: Lab 4, 9 AA 1
5	10/19 – 10/23	The Skeletal System Osteology, skeletal identification, bioarchaeology	Reading: Lab 5, 6, 7 Zoom 2: 10/19 at 2:30 – 3:30 pm PST
6	10/26 – 10/30	Exam 1	Reading: <i>Review weeks 1-5</i> Exam 1 opens/due 10/29
7	11/2 – 11/6	Primate Classification Overview of living primates	Reading: Lab 10, 11
8	11/9 – 11/13 <i>11/11 Veteran's Day</i>	Primate Behavior Patterns of behavior, social systems	Reading: Lab 12
9	11/16 – 11/20	Early Humans Dating methods, Early hominins, Australopithecines	Reading: Lab 13, 14 AA 2
10	11/23 – 11/25 <i>Thanksgiving Break 11/26 – 11/29</i>	Genus Homo Evolution of genus <i>Homo</i>	Reading: Lab 15
11	11/30 – 12/4	Modern Humans Advanced <i>Homo</i> , Human variation, modern lifestyles	Reading: Lab 16, 8 Zoom 3: 11/30 at 2:30 – 3:30 pm PST
12	Finals Week	Exam 2 - Final exam schedule	Reading: <i>Review weeks 7-11</i> Exam 2 opens/due 12/8