

ANTHROPOLOGY 1: INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY

Spring 2017

Section 95413, Tuesday 6:00 - 9:05 PM
Cabrillo College, Watsonville Campus, Room A340

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or 479-6238 Aptos Office and 786-4724 Watsonville Office (during office hours only)

Office Hours: Tuesdays & Thursdays 5:00-6:00 pm at the Watsonville Campus, Rm. A304 (3rd Floor)
and Wednesday 5:30 - 6:20 pm in Room 429C, Aptos Campus

Introduction

Biological Anthropology is the study of human ancestry, or how we came to be what we are today. This branch of anthropology focuses on human biological origins, adaptations, and evolution through time. This course draws on knowledge and information from several specialized scientific fields including genetics, primatology, osteology, forensics, paleontology, and archaeology in order to trace the physical and cultural development of humans. The dynamic field of biological anthropology forces us to consider what it means to be human and the nature of our relationship to other living things (including each other!).

The course is divided into three parts. First, we'll discuss the nature of science and scientific explanations and how this relates to human evolutionary theory. Then, we'll consider the principles of natural selection, evolution and genetic inheritance in order to understand biological variation and the process of evolution. We will then turn our attention to the pros and cons of genetic engineering and how this technology affects natural selection and our lives. Next, we'll explore the anatomy and behavior of the primates in order to uncover clues to our own anatomical adaptations and the behaviors they engendered. Finally, we will examine the human fossil and archaeological record, which is made up of the physical remains of our ancestors and the traces of their behavior in order to answer questions about when humans began walking on two feet, when they started making tools, and when they began to "act human." We will look at our earliest bipedal ancestors as well as trace the evolution of the genus *Homo*, including the debates surrounding the fate of the Neanderthals, and their relationship to early *Homo sapiens*.

Student Learning Outcome: By the end of the course students should be able to compare living and fossil primates, including humans to critically analyze theories of human behavior, diversity and evolution.

Course Advisory: Eligible for English 100 and Reading 100.

ANTHROPOLOGY 1: Introduction to Biological Anthropology fulfills the requirements for the following General Education programs:

- **Area B - Natural Science:** *Life Forms* requirement for the Associate in Arts and/or Associate in Science degrees
- **Area B2 and B3 - Natural Science and Mathematics - *Life Forms*** requirement for the Cal-State University Transfer program
- **Area 5 - Physical & Biological Sciences:** *Biological Sciences* for the Intersegmental General Education Transfer Curriculum (IGETC) for the UC and CSU systems

COURSE REQUIREMENTS:

1. Reading Assignments

All of the assigned readings for this class are available in Canvas, the class webpage or other online sources. Therefore, you are not required to purchase a textbook. Follow the Topical Outline to complete the assigned readings (best to do them in the order listed on the syllabus outline) for this class.

IMPORTANT NOTES: a) It is *essential* to do the readings for this class in order to be successful. Reviewing Lecture Notes alone will not provide the background depth and details needed for some of the more technical material associated with this class (for example, genetics and the fossil record).
b) Although there may be multiple articles assigned for a particular day, these are all relatively short and manageable---don't be intimidated by multiple readings! I have carefully selected the most current, relevant and interesting articles which are much more manageable (in terms of length and time) and engaging than textbook chapters. **DO NOT SKIP THE READINGS!**

2. Note-Taking

Reading & Reflection Guides as well as Video Viewing Guides are provided to help you take notes on the assigned readings and videos. These note-taking guides are provided to help emphasize important points and to prepare you for the exams. The guides are strictly for your use to guide your reading & retention of important class material. You will not be turning in your notes, although we may occasionally have "note-sharing" activities in class that will require you to share notes with classmates.

3. Lecture Presentations

The bulk of the course content comes from the lectures that are in the form of PowerPoint presentations. Most sessions will consist of in-class lecture that will require note-taking. Partial lecture slides will generally be posted in Canvas and may be printed (if desired) and brought to class. You are not required to print the posted lecture slides, but it is helpful to have a hard copy on which to write additional notes discussed in class. NOTE: Exams are based heavily on lecture content. Do not rely on reading & video assignments alone for class content.

4. In Class Videos

We do watch a number of videos in class that have viewing guides associated with them to help you focus on key points & issues. Unless otherwise assigned outside of class, it is important to watch the videos in class for discussion purposes, but also because a number of videos are not available online. There will be questions on the exams from these videos.

5. Written Assignments

Students will complete one "Semester Paper" and one "Semester Project" on topics related to biological anthropology. I will assign the topic(s) and provide instructions & requirements separately with more detailed information on each assignment (see Evaluation section of this syllabus for point distribution).

*IMPORTANT NOTE: Late Assignments

Late papers and assignments will be accepted but will carry an automatic 10% deduction per week late. *Assignments submitted more than TWO WEEKS after the original due date will only be eligible for half credit (as a starting grade).*

6. Additional Assignments

In addition to the written assignments there will be one graded quiz and one Primate research assignment (see Evaluation section of this syllabus for point distribution). Other activities such as worksheets, practice problems, etc. will be assigned, but will not be submitted for grading. These are supplemental assignments designed to prepare you for the exams.

7. Examinations

There are a total of THREE exams, each following the unit of material covered. For example, the first exam will relate to science & evolutionary processes; the second exam will relate to the Primates; and the third or Final exam will relate to hominid evolution. The final exam is not cumulative/comprehensive. All three exams will contain a variety of questions which MAY include but are not limited to the following: Matching section, multiple choice questions and True-False statements, short answer responses, and essay questions. Study guides will be posted to Canvas in advance of the exams to help you prepare. (see Evaluation section of this syllabus for point distribution).

Make-up exams will only be given to those students who present a written, authorized excuse (i.e. from a doctor, professor, academic advisor, etc.) AND who arrange for such a make-up *prior to the scheduled exam*. If an emergency arises, it is your responsibility to call and leave a message for me explaining the nature of the emergency. The make-up exam will be scheduled for the soonest date possible. Please note

that the make-up exam is generally not identical to the original exam given to the class. All make-up exams will be administered during the instructor's office hours or at a proctoring center - NO EXCEPTIONS.

Please be aware that there is a "No Electronics" use policy during exams. This means ONLY emergency phone calls may be answered during an exam. All phones, tablets, etc. must be silenced & put away for the duration of the exam. Students in violation of this policy will be asked to leave & forfeit their exam along with the associated points.

8. Extra Credit

Every student has an opportunity to earn up to a **MAXIMUM of 25 extra credit points** outside of the graded assignments and extra credit opportunities on exams (10 points extra credit available on each of the exams) over the course of the semester. Please consult the class webpage for extra credit opportunities. Always feel free to ask me if there's something you saw, read or did that relates to the class that may be used for extra credit purposes as well.

Evaluation

Grades are based upon the successful completion of the following: Distribution of points per assignment is as follows:

Unit Quiz	20 points
Primate Profile	20 points
Semester Paper	50 points
Semester Project	50 points
Exam 1	80 points
Exam 2	80 points
Exam 3	100 points
TOTAL POINTS	400 (Maximum number of points)

Point Assessment/Letter Grades:

360 points and higher = A
359 - 320 points = B
319 - 280 points = C
270 - 240 points = D
239 and below = F

A note about grades: You should be able to determine where you stand in the class in Canvas as it tracks your total points for graded assignments. Divide your points by the total number of graded points recorded to get a percentage based standing (90-100% = A, 89-80% = B, 79-70% = C, 69-60% = D, and 59% or below = F) at any point during the semester. Remember that final letter grades are determined by the number of **TOTAL POINTS earned** in the class for ALL graded assignments, so use the grade scale above to determine the total point range you will need to earn to achieve your desired grade outcome.

Attendance

Regular attendance is important for success in this class since we meet only once a week. If you miss a class, make sure to contact a class mate or check with me for any announcements or assignments you may have missed. **Please DO NOT WAIT UNTIL THE NEXT CLASS MEETING!**

NOTE: Please refer to the *Cabrillo Community College Catalog* for official attendance requirements.

Classroom Culture

Questions and discussions will help us all to learn and be exposed to different points of view. I therefore encourage your participation in class discussions. Your questions, ideas, and opinions are always welcome, provided you are courteous and respectful of others' opinions. Please refrain from talking or whispering during lectures, videos, and class discussion as it distracts and disrupts the entire class. The same respect should be exercised when your classmates have the floor. If behavior that is distracting to other students

and the instructor persists, those responsible will be asked to leave the classroom. Please do your part to help promote an equitable and successful learning environment.



Out of respect for both your fellow students and your instructor, as well as to minimize distractions, I would appreciate it if all cell phones were silenced and put away during class time. For those of you who must take a call, please step outside the classroom to answer important/emergency calls. Texting, browsing, etc. are strongly discouraged as it distracts other students and the instructor.

Regarding classroom management, student behavior expectations and progressive consequences go to the following link: <http://go.cabrillo.edu/studentreports>. If you have any questions regarding Classroom Management or information on this link, please contact the Dean of Student Services at extension 6525.

Academic Honesty

Classroom standards and student conduct for this class follow the Student Code of Conduct outlined in the Cabrillo College Catalog. Students are expected to exercise academic honesty and integrity in accordance with the ASB initiated policy (copies of the policy are published in the general catalog and the "Student Handbook"). *All work turned in for grading should be original (that means YOUR OWN). Copying another's work without giving them credit, whether an essay or answers during a test, is considered plagiarism. Plagiarism is a form of cheating and will result in disciplinary action that may include a recommendation for dismissal.*

Student Responsibilities

Students are responsible for knowing and adhering to due dates for readings, exams, and written assignments. Students are also responsible for obtaining any hand outs, including study guides as well as viewing videos in the ILC if they should miss a class (see above).

*Students who do not wish to continue the course are responsible for completing the drop/withdrawal process through Web-Advisor. **Please note that it is the student's responsibility to drop the class.** If you need assistance, please contact Admissions and Records for drop & withdrawal procedures. Failure to officially drop the course may result in an "F."*

Important Dates:	2/4	Last day to add a full term course
	2/4	Last day to drop a class with a refund/reversal of fees
	2/5	Deadline to drop course without a "W" appearing on record (no refund)
	2/24	Deadline for pass/no pass grade option
	4/22	Deadline to withdraw from course with a "W" on record

Students Requiring Accommodations

Students needing accommodations should inform the instructor. As required by the Americans with Disabilities Act (ADA), accommodations are provided to insure equal access for students with verified disabilities. To determine if you qualify or need assistance with an accommodation, please contact ACCESSIBILITY SUPPORT CENTER (Formerly DSPS), Room 1073, (831) 479-6379.

Concerning Evolution: This class is about human evolution. It is very important that you understand that I am not asking you to BELIEVE in evolution (it's NOT an ideology, it is a biological process). Rather, I am asking that you understand the nature of science, including its limitations, and the mechanisms that drive the process of biological evolution as they apply to our understanding of human beings as biological organisms. It is therefore unacceptable for you to not answer questions by saying that you do not believe in evolution. Your job is simply to keep an open, critical, and inquiring mind.

Finally- If at any point in the semester you have questions, or find you are having challenges with the material, please come talk to me during my office hours. If you are having difficulty with the assignments or understanding the material, including reading and vocabulary, come to talk to me. Please do not wait until the end of the semester to address whatever issues arise. I am here to help you succeed in this class!

ANTHRO 1 - Spring 2017: Topical Outline & Schedule

Week 1 - January 24th

Introduction to Course & Biological Anthropology

- 1) Read "Using Science to Think Anthropologically"

Week 2 - January 31st

Science, Evolution & Creationism

Video: What About God?

- 1) Read "Science & Evolution," "The Nature of Science," and "Critical Thinking"
- 2) Review Science & Evolution Vocabulary Sheet

Week 3 - February 7th

Natural Selection

➤ Semester Paper Assigned - "Humans, Potatoes & Natural Selection"

- 1) Watch Lecture Video - The Evolution of Evolution (BEFORE coming to class)
- 2) Read "The Evolution of Evolution," "Natural Selection in a Nutshell," "Who Killed All the Honeybees?," "Saving Coffee," and "Antibiotic Resistance"
 - a. Use Reading Guide for note-taking

Week 4 - February 14th♥

Evolutionary Genetics

- 1) Read "Understanding Genetics," "Evolutionary Genetics Cheat Sheet," "From Atoms to Traits," "Epigenetics," and "Annotating the Book of Life"
- 2) Watch YouTube video "18 Things You Should Know about Genetics" and visit the "Learn Genetics" Website (follow directions in Canvas)

Week 5 - February 21st

Evolutionary Processes

Study Guide for Exam 1 posted

- 1) Read "Genes in Populations," "Sickle Cell," "Got Lactase?" and "Cancer's Wandering Gene"
 - a. Use Reading Guide for note-taking
- 2) Watch video "Got Lactase?" using background info sheet & Note-taking/Viewing Guide

Week 6 - February 28th

EXAM 1 - Instructor led study session in class from 5:30-6:00 pm

Week 7 - March 7th

Bio-engineering

➤ Semester Project - "Bioengineering Debate" assigned

MOVIE NIGHT - "The Island"

Week 8 - March 14th

Introduction to Primates

- 1) Watch video "The Day the Mesozoic Died" & take notes using Guide
- 2) Read "Our Primate Relatives," and "Why Can't Chimps Speak?"
- 3) Review Primate Vocabulary Sheet

Week 9 - March 21st

SPRING BREAK!

- 1) Do something fun and enjoy the break!

Week 10 - March 27th

Primate Taxonomy

➤ ***Primate Profile Assigned***

- 1) Read “World of Primates”

Week 11 - April 4th

Primate Behavior & Social Organization

Study Guide for Exam 2 posted

- 1) Read “Powers of Two,” “One for All,” and “What Makes us Human?”
 - a. Use Reading Guide for note-taking

Week 12 - April 11th

EXAM 2

Week 13 - April 18th

Studying the Human Past

- 1) Read “Building Bodies,” “Dating Techniques,” and “The Human Family Tree”

Week 14 - April 25th

Early Hominid Evolution - Ancestors & Relatives: The Australopithecines

Video: Secrets of the Dead - Search for the First Human (in class)

- 1) Read “Early Hominids,” “Welcome to the Family,” and “Climate Shocks”
 - a. Use Reading Guide for note-taking

Week 15 - May 2nd

Evolution of the Genus Homo

Video: In Search of Human Origins (in class)

- 1) Read “Origin and Evolution of the Genus Homo,” “Stone Age Brains,” “Cooking up Bigger Brains,” and “First of our Kind”
 - a. Use Reading Guide for note-taking

Week 16 - May 9th

Neanderthals & Homo sapiens and BEING HUMAN

Study Guide for Final Exam Posted

- 1) Read “Twilight of the Neanderthals,” “What Will Become of Homo Sapiens?,” “Anthropologists Know Where You’ve Been,” and “The Anthropocene”
- 2) Listen to NPR Program “Sapiens”

Week 17 - May 16th

FINAL EXAM at 6:00 p.m.

NOTE: This syllabus is provided as a guide. Dates, scheduled topics, and other information are subject to change. All changes will be announced in class, and any major changes will be provided to you in written form.

Tips for Success in this Class:

- ✓ Attend class and be *attentive* in class
 - Refrain from texting, browsing, chatting, etc.
- ✓ Do the readings
 - They provide lots of context and real world examples of the processes and concepts we learn about in class
 - Use the Vocab & Reading Guides
 - Take notes during class discussions of readings
- ✓ Watch the videos in class
 - Easy way to earn points on quizzes (if given) & prep for exams
- ✓ Complete the major assignments (Semester Paper & Semester Project)
- ✓ Use the study guides to prep for exams
- ✓ COMMUNICATE with me - you don't have to "go it alone"
- ✓ VISIT the KEYS to STUDENT SUCCESS WEBPAGE FOR LINKS TO VALUABLE RESOURCES AVAILABLE TO YOU AT CABRILLO (see link below)

<http://www.cabrillo.edu/services/instruction/success/>

