

Anthropology 101: Human Biological Evolution

Spring 2013: Section 3122– Lecture 3 units

Instructor: Dr. Louis Tartaglia

Class Hours: Monday 6:50 p.m. to 10:00 p.m. Room: /CMS 4

Office Phone: (818) 364-7600 Ex. 4827

E-mail: tartaglj@lamission.edu or ljt2401@lausd.net

Office Hours: Monday 6:10 p.m. to 6:50 p.m. or by appointment in CSM 229 located in the west wing of CMS, second floor.

Prerequisites: None - Advisory: English 28 or ESL 8

COURSE DESCRIPTION: This course explores the field of physical anthropology emphasizing the evolution of the human species. Topics include heredity, mechanisms of evolutionary change, human variation, and the reconstruction of human evolutionary history through the study of the fossil record and the study of our closest biological relatives, the living monkeys and apes. The philosophy of science and scientific method serve as foundations for this course.

STUDENT LEARNING OUTCOMES FOR THE COURSE: Students will explain and analyze the major environmental and biological events of the past that lead from early primates to the emergence of *Homo sapiens*/modern man.

COURSE OBJECTIVES

1. Apply the process of science to problem solving situations and formulate procedural steps necessary for a scientific investigation.
2. Analyze and evaluate the arguments of creationism and intelligence design theory and demonstrate the fallacies of these points of views.
3. Describe, apply, and distinguish the basic concepts of Mendelian genetics, cytogenetics, molecular genetics, and population genetics.
4. Criticize and debate contemporary issues that have developed out of the modern applications of genetics to humans such as genetic counseling, cloning, and gene therapy.
5. Describe the process of evolution and speciation by employing the concepts upon which modern evolutionary theory is based and recognize examples of each.
6. Diagram the place of *Homo sapiens* within the animal kingdom as expressed in the classification of humans and demonstrate what evidence is used to determine evolutionary relationships.
7. Differentiate between monkeys, apes, and humans by identifying both similarities and differences.
8. Compare and contrast the anatomy of humans and the great apes, and be able to identify those anatomical features that provide evidence for human evolution. Explain and evaluate this evidence.
9. Compare the social behavior of human and nonhuman primates and demonstrate how studies of primate behavior shed light on contemporary human behavior.
10. Categorize the important hominid fossils and construct a diagram illustrating the evolutionary history of hominids and early hominid behavior.
11. Describe the physical differences observed among all human populations and determine the ecological significance and distribution of these differences.
12. Compare cultural classifications of human variation with biological observations and hypotheses. Assess the validity of these cultural classifications.

Anthropology 101
OUTLINE OF LECTURE TOPICS

(Schedule subject to change)

Date	Topic	Assignment
February 4	Biological Anthropology	Chapter 1
February 11	Origins of Evolution-A Historic Approach	Chapter 2
February 25	Mechanism of Evolution: Genetics	Chapter 3
February 25	Population Genetics and Genetic Equilibrium	Chapter 4
March 4	Mechanisms of Evolutionary Change	Chapter 4
March 4	FIRST QUIZ - Natural Selection – Speciation	Chapter 5
March 11	The Origin of Species	Chapter 5
March 11	Principles of Taxonomy	Chapter 5
March 18	SECOND QUIZ – Human Variations	Chapter 6
March 18	The Living Primates	Chapter 7
March 25	Comparative Anatomy - Postcranial Skeleton	Chapter 7
April 8	Comparative Anatomy (Skull, Brain and Teeth)	Chapter 7
April 15	THIRD QUIZ - Comparative Molecular Biology	Chapter 7
April 15	Primate Behavior	Chapter 8
April 22	Non-Human Behavior in Perspective	Chapter 8
April 29	Human Behavior in Perspective	Chapter 8
April 29	FOURTH QUIZ - The Fossil Record of the Past	Chapter 9
May 6	Dating Techniques-Early Primate Fossil Record	Chapter 10
May 6	The Early Hominids	Chapter 10
May 13	Evolution of the Genus Homo	Chapter 11
May 13	FIFTH QUIZ - Evolution of the Genus Homo sapiens	Chapters 12-13
May 20	Biomedical Anthropology: An Inquiry	Chapters 14-15
June 3	FINAL EXAMINATION (8:00 p.m. – 10:00 p.m.)	Chapters 1-15

IMPORTANT DATES

LAST DAY TO APPLY FOR A REFUND without receiving a W– February 18

LAST DAY TO DROP CLASS WITHOUT A “W” – March 2

LAST DAY TO DROP CLASS WITH A “W” - May 3

TEXTBOOK

Craig Stanford, John Allen and Susan Anton
Exploring Biological Anthropology, 2nd edition, Prentice Hall Publishing
Company, Boston.

GRADES

Your grade in this course is based upon five quizzes (400 Points), a research paper (100 points), an optional primate observation report (100 points), and a final examination (200 points). A handout will be provided in class explaining what is required for both the research paper and the primate observation report. A total of 700 points may be earned in this course, unless the student elects to submit the optional primate observation report (800 total points). The points required for specific grades are cited below in the grading scale (assignments and point totals are subject to change depending on circumstances):

700 Total Points

A	630-700	90-100%	D	385-454	55-64%
B	560-629	80- 89%	F	0-384	0-54%
C	455-559	65- 79%			

800 Total Points

(Student elected to submit optional primate observation report)

A	720-800	90-100%	D	440-519	55-64%
B	640-719	80- 89%	F	0-439	0-54%
C	520-639	65- 79%			

EXAMINATIONS (600 points)

- Each of the five quizzes consist of 40 to 50 multiple choice questions and one or two short answer essays. They are worth 100 points each. The lowest of the five quiz grades will be dropped. You need to bring a Scantron form to each exam.
- If you miss a quiz you may not take a make-up. You will receive a zero and, as the lowest score, it will be dropped. If you miss a second quiz, it cannot be dropped or made up; it will remain a zero.
- Keyed copies of all quizzes are available for review from the instructor. If you find an error in the grading of a quiz, the error must be reported immediately to the instructor.
- The final exam will be given on Monday, June 3. The final exam cannot be taken at a different time or date. The final exam is worth 200 points and consists of 100 multiple choice questions covering the entire course. The final exam cannot be considered as one of the scores that can be dropped.
- If you fail to take the final exam, an incomplete can be recorded only if you file the required forms and meet the specific deadlines (This is entirely the student's responsibility). Furthermore, you must be passing the course. If you do not make-up the final exam within one year from the end of the semester, the incomplete automatically becomes a grade of "F". If you miss the final exam and fail to request an incomplete, you will be assigned the grade of "F".

GENERAL ATTENDANCE POLICY

- If you are absent, you are STILL RESPONSIBLE for class materials and assignments.
- Holidays: There are no classes on February 18, (President's Day), March 29-April 5 (Spring Break), and Memorial Day (May 27).

ATTENDANCE POLICY

- The instructor will exclude all students from the class who do not attend the first class meeting.
- A student who has two unexcused absences from February 4 through February 25 will be excluded from the class unless he/she informs the instructor that he/she wishes to remain in the class. The message must be received by phone, email, note, or in-person no later than February 25. A simple message will do; there is no requirement for explanation or documentation.
- You may drop the class (be aware of the college deadline) at the Admissions Office (in person, on-line, or by phone). If you stop attending class and fail to officially drop through the Admissions Office, you will receive a final grade of "F" in the course.

COURSE GRADE

- In accordance with Section 76244 of the California Education Code and the Community College Code of Ethics, the only basis for an instructor to change a grade is instructor error. In the absence of an instructor error the final grade in the course is a final grade.
- Any error must be brought to the attention of the instructor no later than one year after the last day of class. A grade cannot be changed after one year even if an error has been made.
- The course grade will be based upon quizzes, required assignments, and a final examination. No extra credit, make-up (examinations), or additional assignments are allowed.
- Please note that the college does not mail grades to students. Students may obtain their final grade through the STEP phone system or Internet, or by ordering a transcript. Students are encouraged to check all grades since errors cannot be rectified after one year.

COLLEGE CLASSROOM CONDUCT

- Please try to be on time to class. It is extremely disrupting to your instructor and other class members when you come in late.
- If you are late to class, please come in quietly, and take a seat near the door.
- If you must leave class early, please have the courtesy of notifying the instructor before class begins that you will have to leave early, and please do so quietly.
- Students are expected to take notes and be involved in all classroom discussions, and activities.
- Always ask questions when you do not understand any lecture material and assignments.
- Students are expected to conduct themselves in a mature and responsible manner during class. Do not talk when either the instructor or a student is speaking.
- All electronic devices (cell phones, beepers, CD players, electronic games) are to be turned off when you enter the classroom. Students whose cell phones ring during class may be asked to leave.
- Any student who is not in compliance with any of the above referenced rules can be excluded from the classroom for the entire period as well as the next class meeting.

ADDS

- If you are adding this class by being given an Add Permit by the instructor, you must process the Add Permit in the Admissions and Records Office no later than February 15.
- Failure to process the Add Permit by that date forfeits your enrollment in this class.

ACADEMIC HONESTY POLICY

- The college's Student Academic Integrity Policy is available and every student should read it.
- Violations of academic honesty and integrity include "cheating on examinations [and/or] assignments... (allowing another student to copy one's answers or copying the answers of other students; exchanging information by any means)... ; submitting for a grade the words, ideas, and/or written work ... of another person without giving due credit to that person. This includes purchased papers or papers written by other students."
- A person who knowingly conducts himself or herself in a dishonest manner shall receive a "ZERO" for the exam or paper and a record of the act will be sent to the Vice President of Student Services.
- The individual who permits another student to copy his or her paper or exam is as guilty as the person doing the cheating and will be punished in a similar manner.
- Please note that the instructor has a zero-tolerance policy with respect to violations of academic integrity.
- There are no excuses for cheating, and none will be accepted.

REPEAT COURSE RULE

- The new enrollment limit at California community colleges is three times to take a class and it includes non-passing grades and withdrawals.

SPECIAL NEEDS

- If you have any special needs or problems that may arise in this course, please do not hesitate to contact the instructor at your earliest convenience.

MODIFICATIONS, ERRORS, AND OMISSIONS

- In the event that any of the above reference items should change during the course, the students will be informed as soon as possible as to the nature of the situation. The instructor reserves the right to change and/or alter the syllabus at any time period.