



ANTH 5: PHYSICAL ANTHROPOLOGY LAB / Spring 2010



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DEAR STUDENTS: It's your responsibility to familiarize yourself with class policies, grading procedures and course requirements stated in this syllabus, and to notify me if you're having a difficult time understanding topics. Don't hesitate to contact me with your questions and concerns throughout the semester, but please don't wait until the last minute when it may be too late for me to help you.

REQUIRED COURSE MATERIALS:

- *Exploring Physical Anthropology: A Lab Manual and Workbook* by Suzanne E. Walker
- *Two Scantron 882 forms*

COURSE DESCRIPTION:

This 1-unit course uses lab exercises to explore the primary topics of physical anthropology, including: principles of evolution, human genetics, human osteology and forensic anthropology, skeletal anatomy of the non-human primates, human variation, and fossil evidence for human evolution. **Students must be concurrently enrolled in Anth 1, or have completed Anth 1 with a "C" or better. This course meets the IGETC/UC GE science lab requirement.**

COURSE OBJECTIVES:

Upon completion of the course, students will be able to:

1. Demonstrate a solid understanding of how the scientific method works.
2. Identify and examine the basic components of cell biology including the structure of cells, cell division, DNA structure and replication, and protein synthesis.
3. Compare and contrast human karyotypes (chromosome spreads) to identify potential abnormalities and chromosomal mutations.
4. Employ principles of Mendelian genetics to determine offspring genotype and phenotype probabilities.
5. Analyze human pedigrees to discover the mode of inheritance of given traits, disorders and diseases.
6. Compare and contrast processes of microevolution and macroevolution.
7. Identify the basic principles of Darwinian theory and describe an example of natural selection in action.
8. Differentiate between the forces of microevolution and recognize their effects on allele and genotype frequencies in populations.
9. Distinguish between ancestral and derived characteristics in a given animal lineage using cladistic analysis.
10. Compare and contrast skeletal and anatomical features of representatives of the vertebrate classes.
11. Identify the distinguishing adaptations of the four types of nonhuman primates.
12. Design an ethogram with which to collect data on nonhuman primate behavior.
13. Locate and describe the major bones of the human skeleton.
14. Analyze, assemble and measure human skeletal material to objectively age and sex remains, assess ancestry and identify pathologies.
15. Utilize anthropometric techniques to measure human body form and describe human biological variation.
16. Distinguish between the early hominid genera and explain their evolutionary significance.
17. Compare and contrast various extinct species of the Genus Homo with modern Homo sapiens and describe their relative positions on the human family tree.

STUDENT LEARNING OUTCOMES:

Student learning outcomes are behavioral objectives - what a student should know, value and be able to demonstrate or perform after the class is completed. Below is an example of a student learning outcome for this class:

In an in-class lab activity, students will determine the sex of human skeletal remains by visually observing various pelvic and cranial features and applying the techniques used by forensic anthropologists to measure various post-cranial bones.

COURSE REQUIREMENTS:

WEEKLY READING: To prepare you for self-tests, mini-lectures, lab activities and exams you're required to complete assigned readings on a weekly basis. Make it a habit to keep up with assigned reading prior to coming to class.

LABS (165 points, 45%): A total of 12 lab activities will be assigned throughout the semester. Labs must be completed in class, and there won't be any make-up opportunities. However, you may miss one lab without affecting your grade (students who complete all labs will earn 15 extra credit points). To receive full credit, you must arrive to class on time for the "mini-lecture" before the day's lab activity and remain until the end of class. Students who arrive late and/or leave before the lab activity has been completed will lose points. Most labs will be completed with lab partners, but each student must submit their own lab worksheets (provided in class).

SELF-TESTS (55 points, 15%): Each lab includes a self-test which must be completed beforehand, and submitted at the beginning of class on the day of the lab activity. Self-tests prepare you for the mini-lectures, lab activities and exams. If you miss a lab, you may not submit the self-test that accompanies it for credit (self-tests will only be accepted if you were present for the lab activity). Late self-tests will not be accepted, nor will I accept self-tests by email or on a flash drive. No exceptions. Students who complete all self-tests will earn 5 extra credit points toward their class grade.

EXAMS (150 points total, 40%): There will be two exams: a midterm and a final (worth 75 points each). Each exam will cover material from the in-class lab activities, mini-lectures and assigned readings. Both will consist of true/false, multiple-choice and matching questions, as well as some fill-in-the-blank questions. Part of each exam will include a "practicum" component (i.e. students will be required to identify items and materials at lab stations, similar to the format used in the weekly lab activities). **BE ON TIME!** Exams start at the beginning of class. Your exam grade will be marked down 5% if you're more than 10 minutes late, and you won't have extra time to finish it.

MAKE-UP EXAM PROCEDURES:

Make-ups will only be given at the instructor's discretion if an emergency, or other serious situation, arises that prevents you from attending class on the date of the exam. **YOU MUST FOLLOW THE INSTRUCTIONS BELOW TO BE CONSIDERED FOR A MAKE-UP:**

- 1) notify the instructor by email or phone no later than 24 hours after the scheduled exam, AND:
- 2) when you return the following class meeting provide the instructor with a written or typed explanation of why you had to miss the exam or essay (written by you), along with some form of "proof" for your absence if you have it (e.g. doctor's note, police report, letter from your supervisor, funeral notice, etc.). I don't contact doctor's offices or supervisors; it's your responsibility to obtain a letter from them and give it to me.

Keep in mind that make-ups aren't automatically approved, it depends on the nature of your situation. If you provide proof/evidence, you stand a better chance of having your request approved. You'll be notified within a week as to whether you can complete a make-up. All make-ups will be scheduled at a date and time determined by the instructor (during week 14 or 15 of the semester). *All make-ups will be marked down 10% regardless of the excuse.* Only one make-up exam will be allowed per student. No exceptions.

PLAGIARISM QUIZ (no credit, but required): This quiz isn't worth any points, but students must complete it, and earn 100%, in order to qualify for submitting Self-Tests and extra credit assignments. These assignments will not be accepted if you don't complete the Plagiarism Quiz. The quiz will be distributed in class and is due the second week of the semester. If you don't earn 100% on it the first time, you can retake it until you do. To prepare for this quiz, read ALL the information on the *Plagiarism Handout* (distributed in class) and the following website: <http://www.indiana.edu/~wts/pamphlets/plagiarism.shtml>. This link is also available on my website (under the "Physical Anth Lab" link).

EXTRA CREDIT:

Students may complete up to 10 extra points (3% towards your class grade). Extra credit is due at the end of the semester and can be used to make up some points missed on labs and exams. Details will be announced in class and posted on my website.

Extra credit is a privilege - I reserve the right to refuse extra credit assignments from anyone (e.g. from students with excessive absences or tardies, for lack of participation in class, for plagiarizing a class assignment, etc.). **Extra credit may only be used to enhance your class grade if your exam scores average 70% or above.**

KEEPING TRACK OF YOUR GRADE

Record points in the table below to help you calculate your grade throughout the semester (e.g. at anytime during the semester add up your total points and divide by the total number of points accumulated in class so far):

	Your points:	Points possible	% of Grade
Labs + Self-tests (you may miss 1 of each)	-----	165 + 55	60%
1		15 + 5	
2		15 + 5	
3		15 + 5	
4		15 + 5	
5		15 + 5	
6		15 + 5	
7		15 + 5	
8		15 + 5	
9		15 + 5	
10		15 + 5	
11		15 + 5	
12		15 + 5	
Midterm		75	20%
Final Exam		75	20%
Extra Credit		(20)	(5%)
TOTAL		370	100%

GRADING SCALE:

The following scale will be used to calculate your class grade:

90 - 100%	A	332-370 points
80 - 89%	B	295-331 points
70 - 79%	C	258-294 points
60 - 69%	D	220-257 points
0 - 59%	F	219 and below

ABSENCES/TARDIES:

According to college policy "a student may be dropped when the number of hours absent exceeds the number of units assigned to the course." *The maximum number of absences allowed in this class is 2.* Once you reach 3, you may be dropped regardless of the reason for the absences (e.g. domestic, medical, work- or school-related, or otherwise). *I strongly advise you keep your absences to a minimum so you don't miss lectures, in-class work and other important information you need to successfully complete the class.* If you're absent, it's your responsibility to check with another student about what you missed. I recommend copying notes from another student when you return (outside class time).

Make it a habit to come to class on time. Your tardies create distractions for your classmates and instructor. *Excessive tardies will affect your class grade (points will be deducted).* The same holds true for those who make it a habit to leave early.

DROPPING THE CLASS:

Although instructors may drop students, the college views dropping as the student's responsibility. Sometimes students stop attending class near the final drop deadline and the instructor doesn't catch it in time (in which case the student winds up with an "F" in the class). Don't assume you'll automatically be dropped due to non-attendance. If you need to drop, you can go to Admissions on campus or drop online through MyECC.

ACADEMIC HONESTY POLICY:

Students are expected to abide by ethical standards in preparing and presenting material that demonstrates their level of knowledge, and which is used to determine grades. PLAGIARISM, CHEATING OR FURNISHING MATERIALS IN ORDER TO ENABLE OTHER STUDENTS TO DO SO WILL NOT BE TOLERATED. This sort of behavior violates Section I.B.1 of El Camino College's Board Policy 5138, Standards of Student Conduct.

The following cases constitute PLAGIARISM: 1) submitting under one's own name papers or reports which have been prepared by others (including the use of commercial term paper companies); 2) copying word for word, an author's sentences or paragraphs and including them in your paper as your own work; 3) paraphrasing published material without acknowledging the source; and 4) improperly paraphrasing material.

CHEATING is defined as: 1) using notes, aids or the work of other students on exams or papers in ways other than those expressly permitted by the instructor; 2) misreporting or altering the data in research projects involving the collection of data; 3) submitting an assignment which is identical to that of another student's (i.e. sentences and/or paragraphs are the same, word for word, and/or results from data collection are identical).

Academic dishonesty may be dealt with in one or more of the following ways: 1) the student may receive an appropriate academic penalty such as an oral reprimand; 2) an "F" may be assigned on all or part of a particular paper or exam; or 3) the student may be suspended from all classes for that term and the following term if deemed appropriate.

CLASSROOM BEHAVIOR AND CONDUCT:

Anthropology deals with some controversial topics that may challenge one's belief systems. You're expected to practice courtesy and respect at all times, regardless of whether or not you agree with information presented in class. This is the nature of anthropology: to respect (and attempt to understand) ways of life and beliefs that are different from your own. Anyone who is disrespectful or disruptive will be asked to discontinue participation and may be required to leave the room. Behaviors that disrupt the learning process will not be tolerated.

When you attend my class, you're expected to come prepared and fully participate. This doesn't necessarily mean raising your hand and verbally participating in class discussions (though that would be great!), but that you're alert, actively taking notes during lectures, films, etc. and participating in class activities. Non-participation will affect your grade. Examples of non-participation include: talking to others during lectures or films, passing notes to another student, sleeping, reading textbooks or completely homework for other classes, text messaging. *Points will be deducted from your grade if you regularly engage in these, or similar, behaviors.*

Please don't make it a habit to come and go during class because this is also very disruptive to your classmates and the instructor. Students who do so on a regular basis, will be marked absent for the day and/or points will be deducted from their grade. If, on occasion, you know ahead of time that you'll need to excuse yourself temporarily from class or leave early, please take a seat near the door to avoid disrupting others.

AMERICAN DISABILITIES ACT (ADA) STATEMENT:

According to the American Disabilities Act, any student with an identified disability is eligible to be registered with the Special Resource Center (1-310-660-3593, X3296). El Camino College is committed to providing reasonable accommodations upon request of the student (in a timely manner) and upon verification of the disability.

SERVICES AVAILABLE TO ECC STUDENTS (first dial 1-310-660-3593, then the extension below):

ASSESSMENT/TESTING CENTER	X6536	SSC 217
CAREER SERVICES CENTER	X6137	SSC 1 st floor
COUNSELING SERVICES DIVISION	X3458	SSC 1 st floor
EOP&S	X3464	SSC 202 & 203
FINANCIAL AID	X3493	SSC 215
HEALTH CENTER	X3643	
LEARNING RESOURCE CENTER (includes Tutoring)	X6494	LIBRARY
LIBRARY (includes computer lab)	X3519	
TRANSFER CENTER	X3408	SSC 1 st floor
WRITING CENTER	X3873	COMM 202