EL CAMINO COLLEGE
Behavioral & Social Sciences

PHYSICAL ANTHROPOLOGY LABORATORY

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Meeting Day/Time: Monday 1:00–4:35 pm
Meeting Location/Room: ARTB 322
Office Hours: By Appointment

THIS IS A WEB ENHANCED COURSE: COURSE DOCUMENTS ARE PROVIDED TO YOU ON OUR CLASS TEAM SITE AND CANVAS

CLASS TEAM SITE: Log into MyECC: http://www.elcamino.edu/myecc/ → Our course page can be found under the Class link.

CANVAS: Enrolled students should receive an email invitation to join the class page via your El Camino email addresses. If you can’t find your invitation or if you add the course, you will need to self-enroll. You can self-enroll at: https://canvas.instructure.com/enroll/YJ7YML - or- you can sign up at https://canvas.instructure.com/register and use Join Code: YJ7YML.

PREREQUISITE: Completion of Anthropology 1 with a minimum grade of C or concurrent enrollment


COURSE DESCRIPTION: This course uses laboratory exercises and other assignments to explore the primary topics of physical anthropology. Topics will include principles of evolution, human genetics, forensic anthropology, behavior and anatomy of nonhuman primates, human variation, and fossil evidence for human evolution. A visit to a local zoo is required.

COURSE OBJECTIVES:
1. Demonstrate a basic understanding of the scientific method by testing a simple hypothesis.
2. Examine and identify 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 give 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 determine age and sex of 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 hominin/hominin 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 (SLOs):
SLO#1▶ HUMAN KARYOTYPES: In an in-class lab activity, students will compare and contrast human karyotypes to identify potential abnormalities and chromosomal mutations.
SLO#2▶ DETERMINING SEX OF HUMAN REMAINS: 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 techniques used by forensic anthropologists to measure various post-cranial bones.
SLO#3▶ HOMINID/HOMININ EVOLUTION: In an in-class lab activity, students will demonstrate an understanding of hominin/hominin evolution by identifying the distinguishing cranial and dental features that characterize members of the genera Australopithecus, Paranthropus and Homo.

COURSE REQUIREMENTS:

<table>
<thead>
<tr>
<th>LABS 1 – 16</th>
<th>PRIMATE RESEARCH AND OBSERVATION PROJECT PAPER</th>
<th>PRACTICUMS (EXAMS)</th>
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<tbody>
<tr>
<td>@ 10 points each = 160 points</td>
<td>[4 @ 25 points each = 100]</td>
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GRADING PROCEDURES: The total number of points that can be earned in this course is 300. A 10% scale is used to calculate your grade.

YOU CANNOT MAKE UP MISSED LABS, QUIZZES, OR PRACTICUMS (EXAMS)!!! THERE IS NO EXTRA CREDIT!!!

FINAL LETTER GRADE VALUES: A = 300-270 (100%-90%); B = 269-240 (89%-80%); C = 239-210 (79%-70%); D = 209-180 (69%-60%); F = 179 and below (<59%)

GRADE TRACKING: A grade tracking worksheet will be provided to you online.
REQUIRED MATERIALS: ☞ LAB MANUAL ☞ SUPPLEMENTAL NOTES (FOR SELECTED CHAPTERS) ☞ SUPPLEMENTAL LAB WORKSHEETS (FOR SELECTED CHAPTERS) ☞ CALCULATOR ☞ PEN OR PENCIL ☞ WRITING PAPER (SUPPLEMENTAL NOTES AND SUPPLEMENTAL LAB WORKSHEETS FOR SELECTED CHAPTERS WILL BE PROVIDED ONLINE - CHECK CANVAS OR OUR CLASS TEAM SITE PRIOR TO CLASS MEETINGS FOR THESE DOCUMENTS).

✓ YOU MUST COMPLETE THE REQUIRED READING FOR EACH LAB IN ADVANCE AND COME TO CLASS PREPARED WITH READING MATERIAL IN PRINT OR ELECTRONIC FORMAT, AND WITH PRINTED WORKSHEETS FROM THE BOOK AND ANY PRINTED SUPPLEMENTAL LAB WORKSHEETS!!!

YOU MUST COME TO CLASS PREPARED EVERY WEEK!!! IN ORDER TO DO SO, YOU WILL NEED TO DO THE FOLLOWING:

☞ READ EACH CHAPTER AND ANY SUPPLEMENTAL NOTES BEFORE THE SCHEDULED LAB(S). OUR TIME IS LIMITED AND WE WILL NEED TO MOVE ALONG AT A GOOD PACE IN ORDER TO COVER ALL THE NECESSARY MATERIAL. HAVE ALL READING MATERIAL (INCLUDING ANY SUPPLEMENTAL NOTES) WITH YOU IN PRINT OR ELECTRONIC FORMAT FOR THE SCHEDULED LAB(S).

☞ PRINT LAB WORKSHEETS FROM THE BOOK AND ANY SUPPLEMENTAL LAB WORKSHEETS IN ADVANCE AND BRING THEM WITH YOU TO CLASS.

FOR EVERY CLASS MEETING, YOU WILL NEED TO BRING:

☞ A LAB MANUAL (OR PRINTOUT OF THE LAB MANUAL FROM THE ONLINE VERSION) – EVERYONE MUST HAVE HIS/HER OWN LAB MANUAL OR PRINTOUT (YOU MAY USE A LAPTOP, TABLET, OR IPAD TO ACCESS THE READING MATERIAL ONLINE DURING CLASS, BUT FOR NO OTHER PURPOSES)

☞ ANY SUPPLEMENTAL NOTES AND SUPPLEMENTAL LAB WORKSHEETS FOR SELECTED LABS (PRINTED FROM CANVAS OR THE CLASS TEAM SITE)

☞ WRITING PAPER (NOTEBOOK OR LOOSE SHEETS)

☞ A PEN OR PENCIL

☞ A SIMPLE CALCULATOR – YOU CANNOT USE A CELL PHONE CALCULATOR FOR PRACTICUMS!

ATTENDANCE: El Camino College Policy: http://www.elcamino.edu/admissions/attendance.asp. Attending every class is critical to your understanding the content of this course and not all of the content is available in your lab manual and assigned readings. This is a lab class, which focuses on methods, so any absences will negatively impact your grade. If you cannot be committed to attending all of the classes for the semester, you should not take this course. If you are absent and miss instruction, lab activities, and/or a practicum you will not receive credit, and you will forfeit the opportunity to have explanation of the material covered and direction from the Instructor. It is NOT possible to make up any lab classes that you miss, to hand in late lab worksheets, or to review the material you missed due to an absence. In the event of an absence, it is YOUR responsibility to obtain any information and additional notes and/or instruction(s) you missed from a classmate. If you miss more than one lab class, it will significantly impact your grade! Any classes you miss will result in a loss of points (even if you make arrangements in advance). Missed labs and practicums cannot be made up. Most of your course grade points are derived from the labs. You must be present in class and participate in all lab activities in order to receive full credit for the labs. If you are absent for a class, you are responsible reviewing and completing the covered material on your own.

TARDY & EARLY DEPARTURE POLICY: Students who arrive to class late must not disturb or distract classmates. Any student who arrives late and disrupts the class will be asked to leave. Students who habitually arrive twenty (20) minutes or later after class begins may not be admitted. Habitual lateness and/or leaving early will result in a loss of points. Students who arrive late and/or depart early during lab activities will lose or forfeit points. Students arriving more than five (5) minutes late for a practicum will not be admitted without a documented and valid excuse.

WHAT TO DO IF YOU HAVE A SCHEDULE CONFLICT:

☞ IF YOU HAVE A DOCUMENTED AND VALID EXCUSE, COMPLETE THE “REQUEST TO SUBMIT ASSIGNMENT IN ADVANCE” FORM PROVIDED TO YOU ONLINE. YOU MUST PROVIDE DOCUMENTATION (COURT DOCUMENT, OUTPATIENT FORMS, DOCTOR’S NOTE, LETTER FROM YOUR EMPLOYER ON COMPANY LETTERHEAD, etc.). PLEASE NOTE THAT YOU WILL LOSE SOME POINTS FOR MISCELLANEOUS ACTIVITIES AND NOT SUBMITTING YOUR LAB WORKSHEET(S) ON THE ASSIGNED DAY.

☞ IF YOU DO NOT HAVE A VALID EXCUSE FOR WHICH YOU CAN PROVIDE DOCUMENTATION, YOU MUST DECIDE IF YOU WISH TO REMAIN IN THE CLASS WITH THE UNDERSTANDING THAT YOU WILL LOSE ALL OF THE POINTS FOR WHATEVER YOU MISS THE DAY(S) YOU ARE ABSENT (NOTE: WEDDINGS, BACHELOR PARTIES, SPORTING EVENTS, EXTENDED VACATIONS, etc., ARE NOT VALID EXCUSES). IF YOU KNOW THAT YOU WILL MISS MORE THAN ONE CLASS, ESPECIALLY IF YOU WILL MISS A PRACTICUM, IT WOULD BE BEST FOR YOU TO DROP THIS CLASS AND TAKE IT ANOTHER TIME WHEN YOU HAVE NO SCHEDULE CONFLICTS!

☞ IF YOU HAVE A SCHEDULE CONFLICT ON THE DAY OF A LAB PRACTICUM, YOU SHOULD DROP THE CLASS AND TAKE IT ANOTHER SEMESTER, AS YOU WILL NOT BE ABLE TO TAKE PRACTICUMS ON ALTERNATE DATES. WE DO NOT HAVE ACCESS TO THE CLASSROOM AND LAB MATERIALS OUTSIDE OF OUR SCHEDULED CLASS TIME.

WHAT TO DO IF YOU ARE ABSENT:

☞ CHECK OUR CLASS SCHEDULE.

☞ READ THE CHAPTER MATERIAL AND ANY SUPPLEMENTAL NOTES - AND COMPLETE THE WORKSHEET(S) FOR THE LAB OR LABS WE COVERED.

☞ IF YOU HAVE A DOCUMENTED AND VALID EXCUSE FOR YOUR ABSENCE, YOU MAY HAND IN A LATE WORKSHEET(S) ONLY WITH THE COMPLETED FORM AND COPY OF EXCUSE DOCUMENTATION ATTACHED (DOCTOR’S NOTE, TOW TRUCK RECEIPT, POLICE REPORT, etc.). THE “REQUEST TO SUBMIT LATE ASSIGNMENT” FORM (INSTRUCTIONS INCLUDED) IS PROVIDED ONLINE. PLEASE NOTE THAT ANY MISSED LABS WILL RESULT IN A LOSS OF SOME POINTS. PLEASE ALSO NOTE THAT LAB PRACTICUMS CANNOT BE MADE UP UNDER ANY CIRCUMSTANCES.

☞ IF YOU DO NOT HAVE A DOCUMENTED AND VALID EXCUSE FOR YOUR ABSENCE, YOU ARE RESPONSIBLE FOR COVERING THE MATERIAL YOU MISSED ON YOUR OWN AND SHOULD WORK WITH A TUTOR AT THE LRC TO REVIEW THE MATERIAL. LATE LAB DOCUMENTS WILL NOT BE ACCEPTED FOR UNEXCUSED ABSENCES. PLEASE DON’T ATTEMPT TO HAND IN LATE LAB DOCUMENTS UNDER THESE CIRCUMSTANCES. PLEASE NOTE THAT MISSED LABS CANNOT BE MADE UP, AND YOU WILL FORFEIT ALL OF THE POINTS FOR ANY LAB(S) MISSED DUE TO UNEXCUSED ABSENCES. PLEASE NOTE THAT LAB PRACTICUMS CANNOT BE MADE UP UNDER ANY CIRCUMSTANCES.
PLEASE NOTE: IF YOU HAVE A SICK GRANDPARENT OR RELATIVE WHO YOU ARE RESPONSIBLE TO CARE FOR, YOU MUST PROVIDE DOCUMENTATION FOR ANY DOCUMENTED AND VALID EMERGENCIES IN CONNECTION THERewith. IF YOU MISS ANY CLASSES DUE TO SOMEONE CLOSE TO YOU BEING IN NEED OF YOUR CARE OR PRESENCE FOR A MEDICAL EMERGENCY - OR IN THE EVENT OF A DEATH AND RELATED FUNEBRARY EVENT, YOU MUST PROVIDE SOME FORM OF DOCUMENTATION IN ORDER TO QUALIFY FOR ANY EXCEPTION. IF THE EVENT CAUSES YOU TO MISS A PRACTICUM, YOU MAY NEED TO FILE FOR AN INCOMPLETE GRADE AND WOULD NEED TO COMPLETE THE REMAINDER OF THE COURSE DURING ANOTHER SEMESTER. I APOLOGIZE FOR THE HARSNESS OF HOW THIS MAY SOUND, BUT THERE IS NO WAY FOR ME TO TELL WHO IS BEING HONEST AND WHO IS NOT WITH RESPECT TO SPECIAL EXCEPTIONS.

ACADEMIC OR PERSONAL MISCONDUCT: Violations of El Camino College Standards of Conduct will not be tolerated. Any student acting inappropriately or engaging in any type of harassing manner towards fellow students or the Instructor will be asked to leave the class, and may be subject to further disciplinary action. Cheating or plagiarism will result in an “F” for any exam, quiz, or assignment. If you don’t understand the information provided by the Instructor and included in El Camino College’s Policies and Procedures Re: Academic Honesty & Standards of Conduct, consult the Instructor for clarification BEFORE signing and submitting the Student Agreement. Cheating on exams or quizzes will not be tolerated, and all submitted course documents must be in your own words. Standards of Student Conduct Board Policy: http://www.elcamino.edu/administration/board/boarddocs/5500%20Standards%20of%20Conduct.pdf

ACADEMIC HONESTY POLICY: El Camino College Catalog: http://www.elcamino.edu/admissions/docs/2014-2015-Catalog.pdf College standards of academic honesty will be applied in this class. Academic dishonesty will result in an “F” on all or part of an assignment and referral to the Dean. The El Camino College Catalog is the official publication addressing and guiding academic and student services policies. Students are required to submit their Primate Research and Observation Projects to turnitin.com for plagiarism checking. Students agree that by enrolling in this course, ALL assignments are subject to plagiarism prevention and detection processes.

CLASSROOM RULES AND REGULATIONS: Please be considerate and respectful of your classmates and Instructor. Do not engage in any distracting, disruptive or improper behavior. Please do not engage in personal conversation when someone else is speaking. Please turn your cell phone ringer off upon arriving to class and do not engage in calls or text messaging during class. If you need to initiate or accept a call or text message, kindly step out of the classroom and return only after your communication is complete. Do not interrupt a person who is speaking; please wait your turn to speak. “The diversity of the El Camino College student population provides a unique opportunity to appreciate the dynamic variation among us. At times we may disagree on a particular point; however, our discussions will always remain respectful of these differences. We will treat others with dignity and respect in the classroom.” You may bring a laptop/IPad/tablet to class to access the lab manual eBook and supplemental notes, but if you use it for other purposes during class and distract classmates, you will lose this privilege. Laptops/IPads/tables or other electronic devices CANNOT be plugged into wall sockets in the classroom, due to liability issues. Laptops/IPads/tables and smart phones may NOT be used during group lab activities! Students who use laptops/IPads/tables, smart phones, or other electronic devices for activities other than classwork will be asked to leave and will NOT receive credit for the lab(s).

ELECTRONIC RECORDING: In accordance with California Education Code Section 78907, the use by any person, including a student, of any electronic listening or recording device in any classroom without the prior consent of the instructor is prohibited, except as necessary to provide reasonable auxiliary aids and academic adjustments to disabled students. Any person, other than a student, who willfully violates this section shall be guilty of a misdemeanor. Any student violating this section shall be subject to appropriate disciplinary action.

ADA STATEMENT: El Camino College is committed to providing educational accommodations for students with disabilities upon the timely request by the student to the Instructor. Any student with a disability who would like to request an academic accommodation is responsible for identifying himself/herself to the Instructor and the Special Resource Center (SRC): http://www.elcamino.edu/academics/src/

PRIMATE RESEARCH AND OBSERVATION PROJECT PAPER: (REQUIRED)

☞ COMPLETE AND DETAILED INSTRUCTIONS FOR THIS PROJECT WILL BE PROVIDED TO YOU ONLINE
☞ YOU MUST CAREFULLY READ AND FOLLOW ALL OF THE INSTRUCTIONS POSTED FOR YOU ONLINE
☞ PROJECT PAPERS MUST BE SUBMITTED VIA TURNITIN.COM ON OR BEFORE THE INDICATED DEADLINE
☞ AFTER READING THE INSTRUCTIONS, ANY QUESTIONS OR CONCERNS YOU MAY HAVE SHOULD BE ADDRESSED WITH THE INSTRUCTOR BEFORE ATTEMPTING TO COMPLETE THIS PROJECT AND WELL IN ADVANCE OF THE DUE DATE

THE DEADLINE DATE FOR TURNITIN.COM SUBMISSIONS AND ZOO TICKET/RECEIPT SUBMISSIONS THAT CANNOT BE SCANNED OR SUBMITTED ELECTRONICALLY ARE INDICATED IN OUR CLASS SCHEDULE. DO NOT SUBMIT A HARD COPY OF YOUR PROJECT PAPER. DO NOT SUBMIT A PROJECT PAPER OR ZOO TICKET/RECEIPT VIA EMAIL TO THE INSTRUCTOR.

You should seek assistance from a writing tutor at the Learning Resources Center: http://www.elcamino.edu/library/lrc/index.asp

* Project papers submitted late to turnitin.com are subject to a deduction of 10% for each week overdue.

If you want to earn the best grade possible, you must attend all class meetings and work consistently throughout the semester. You must complete all readings, labs, and practicums on time, and study for practicums. There is no extra credit because tutoring is available if needed. You will receive the grade you earn. If you are absent and miss classwork, or if you arrive late and leave early, you will lose valuable points that you will not be able to make up. You will be provided with all the tools you need to do well in this course. You must work diligently to earn the grade you wish to achieve. Do not wait until the end of the semester to seek assistance and apply yourself. You should not take this course if you cannot attend all scheduled classes.
Some labs may include/incorporate Supplemental Notes and Supplemental Lab Worksheets provided online. You will need to check this schedule and Canvas or our Class Team Page page prior to all class meetings so you can come to class prepared with all required materials.

You are responsible for checking this schedule regularly and coming to classes prepared for scheduled labs and practicums!

<table>
<thead>
<tr>
<th>WEEK</th>
<th>DATE</th>
<th>SCHEDULE</th>
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<tbody>
<tr>
<td>1</td>
<td>25-Jan</td>
<td>COURSE INTRODUCTION AND LAB PROCEDURES REVIEW</td>
</tr>
<tr>
<td>2</td>
<td>1-Feb</td>
<td>LAB 1 AND LAB 2</td>
</tr>
<tr>
<td>3</td>
<td>8-Feb</td>
<td>LAB 3 AND LAB 4</td>
</tr>
<tr>
<td>4</td>
<td>15-Feb</td>
<td>PRESIDENTS’ DAY HOLIDAY!!!</td>
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<tr>
<td>5</td>
<td>22-Feb</td>
<td>PRACTICUM 1</td>
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<tr>
<td>6</td>
<td>29-Feb</td>
<td>LAB 5 AND LAB 6</td>
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<tr>
<td>7</td>
<td>7-Mar</td>
<td>LAB 7 AND LAB 8</td>
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<tr>
<td>8</td>
<td>14-Mar</td>
<td>SPRING BREAK!!!</td>
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<tr>
<td>9</td>
<td>21-Mar</td>
<td>PRACTICUM 2</td>
</tr>
<tr>
<td>10</td>
<td>28-Mar</td>
<td>LAB 9 AND LAB 10</td>
</tr>
<tr>
<td>11</td>
<td>4-Apr</td>
<td>LAB 11 AND LAB 12</td>
</tr>
<tr>
<td>12</td>
<td>11-Apr</td>
<td>PRACTICUM 3</td>
</tr>
<tr>
<td>13</td>
<td>18-Apr</td>
<td>LAB 13 AND LAB 14</td>
</tr>
<tr>
<td>14</td>
<td>25-Apr</td>
<td>LAB 15</td>
</tr>
<tr>
<td>15</td>
<td>2-May</td>
<td>LAB 16</td>
</tr>
<tr>
<td>SUN</td>
<td>8-May</td>
<td>DEADLINE TO SUBMIT PROJECT PAPER TO TURNITIN.COM (must be submitted before midnight)</td>
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<tr>
<td>16</td>
<td>9-May</td>
<td>PRACTICUM 4 [FINAL] DEADLINE TO SUBMIT ZOO TICKET/RECEIPT IF UNABLE TO BE SCANNED AND SUBMITTED ELECTRONICALLY WITH PROJECT PAPER</td>
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The instructor reserves the right to adjust the assignments and grading criteria, if necessary, to accommodate any unforeseen time and content restraints. Students will be notified in class, by email, and online (Canvas or team site) of any schedule changes.

Adding/Dropping: It is your responsibility to add or drop this course via MySite before the deadlines expire. It is your responsibility to officially withdraw from this course if you decide not to complete it! If you simply stop showing up for class, do not assume that the instructor will automatically drop you!!! The last day to officially withdraw from this course is April 15, 2016.

Important Dates: (You should double-check these dates on MyECC to ensure accuracy and in case there are any changes)
26-Jan-2016 - Last day to add / Last day to drop with refund / Last day to drop without notification on permanent record
15-Apr-2016 - Last day to officially withdraw from the course

★ The instructor does not accept any course documents via E-mail.
★ No course documents will be accepted after the last day of class

After completely reading through this syllabus, carefully re-read page 5 of this syllabus (student agreement) and if any information is unclear, discuss it with the instructor prior to signing. If you do not understand or agree with any terms and conditions of this syllabus, please discuss with the instructor prior to signing and submitting the student agreement form.
If you prefer to be addressed by a nickname instead of your first name, please write it clearly here: ____________________________