Introduction to Biological Anthropology Laboratory
Anthropology 226
Fall 2015

Anthropology Building Rm 300A

Lab Instructor: Kristin Hoffmeister
Sections: 503 (Friday 9:10-12:10) & 505 (Monday 12:40-3:40)
Office: Room 310D Anthropology Building
Office Hours: Wednesday 2:00-4:00
Email: khoffmei@neo.tamu.edu

Lab Instructor: Kersten Bergstom
Sections: 504 (Friday 12:40-3:40) & 506 (Wednesday 5:20-8:20)
Office: Room 310F Anthropology Building
Office Hours: Thursday 3:00-5:00
Email: kersten.bergstrom@tamu.edu

Lab Instructor: Katie Bailey
Sections: 501 (Tuesday 9:35-12:35) & 502 (Wednesday 12:40-3:40)
Office: Room 310E Anthropology Building
Office Hours: Monday 10:30-12:30
Email: katie_9808@tamu.edu

Course Description:
Basic evolutionary principles will be explored through population genetics. Lab provides hands-on exposure to the fossils of primate and human evolution along with the opportunity to measure, compare and contrast and observe trends that have occurred throughout the Cenozoic era. Concurrent registration with ANTH 225 is recommended.

This course is an elective with the Life/Physical Science Attribute and open to all students. There are no prerequisites.

Learning Outcomes:
By the end of the course students should be able to:
1. Apply the scientific method to problem solving in non-academic situations
2. Discuss and explain the mechanisms of evolution and the principles of population genetics
3. Measure and demonstrate traits related to major events in human evolution (encephalization, bipedalism, etc.)
4. Identify extant and extinct primate specimens, including human ancestors
5. Demonstrate human variation with examples from the general population
6. Explain and demonstrate examples of bioarchaeological and forensic methods of individual identification (estimate age, sex, and stature)

Required Text:
Always bring your lab manual to lab unless indicated otherwise. We will be doing assignments from the Walker-Pacheco lab manual, so you will need it to follow along during the lecture portion of the lab. The information in the manual will be important when going through the lab stations. Additional supplementary readings and handouts will be passed out for some of the laboratory sessions.

Reading Assignments:
A .pdf of the assigned readings will be posted on the class's eCampus website (eCampus.tamu.edu). It will be posted in a folder labeled by week that contains the readings/handouts for that week. You must bring a copy of the readings to lab for discussion; these are required just as much as the lab manual.

Evaluation:
Your lab grade will be based on a combination of attendance, quizzes, lab assignments, a midterm practical, and a final lab exam. Participation is an important part of the learning process in the lab and includes: arriving to class on time, being prepared for class, participation in discussions and lab exercises, and adherence to lab rules. Grades will be weighted as follows:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Participation</td>
<td>10%</td>
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<tr>
<td>Quizzes</td>
<td>15%</td>
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<tr>
<td>Homework</td>
<td>15%</td>
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<tr>
<td>Lab Assignments</td>
<td>25%</td>
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<tr>
<td>Midterm Exam</td>
<td>15%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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</table>

Participation:
This is an important part of the learning process in the lab and includes: arriving to class on time, being prepared for class, participation in discussions and lab exercises, and adherence to lab rules. Moreover, individuals who contribute while in class and take part in active learning generally find that they do better on tests. There will be 11 in-class lab assignments corresponding to the 11 lab periods, including the midterm practical. The lowest lab grade will be dropped.

Quizzes:
There will be weekly quizzes based on the material presented in lab the previous week, as well as on the current week’s assignments and readings. These quizzes are intended to help you prepare for both your lab practicals and your lecture exams. Your lowest quiz grade will be dropped.

Homework:
There will be 6 homework assignments that will include handouts, lab manual self-tests, and various readings. These are intended to help you study and prepare you for the quizzes and practicals. Homework assignments are due on the dates listed at the end of the syllabus. Late submission of homework will not be accepted and will result in a zero for the assignment.
Practical Exams:
Each exam consists of 20 timed stations at which the questions are based on the osteological and fossil specimens from lab. Each station will have approximately 2-4 questions. There will be two open lab study times before each exam (dates and times to be announced). The practicals are not cumulative but do build on previous materials.

Grading Scale:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Letter Grade</th>
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<tbody>
<tr>
<td>100-90</td>
<td>A</td>
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<tr>
<td>89-80</td>
<td>B</td>
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<td>79-70</td>
<td>C</td>
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<tr>
<td>69-60</td>
<td>D</td>
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<tr>
<td>59-0</td>
<td>F</td>
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Attendance:
You are expected to attend every lab session and stay for the entire duration. Early departures are not allowed. You will receive a zero for any week you arrive late, leave early, or are absent without an approved excuse. Contact lab instructors as soon as possible if you will be missing or have missed a lab. You may attend a session other than your assigned lab provided that you receive prior approval from both lab instructors. Failure to abide by this rule will result in you being marked absent for that week and receiving a grade of zero (i.e. no make-up quizzes, assignments or late homework).

Make-up Policy:
There is a graded assignment and/or quiz each week, and you will not be allowed to make these up or turn them in late if you do not have a university-approved excused absence.

If an absence is excused, the instructor will provide the student an opportunity to make up any assignment, quiz, or exam by a date agreed upon by the student and instructor. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details (http://studentrules.tamu.edu/rule07). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class and appears on the university authorized activity list at https://studentactivities.tamu.edu/app/sponsauth/index
2) Death or major illness in a student's immediate family.
3) Illness of a dependent family member.
4) Participation in legal proceedings or administrative procedures that require a student's presence.
5) Religious holy day. NOTE: Prior notification is NOT required.
6) Injury or illness that is too severe or contagious for the student to attend class.
Make-up Policy (Cont.)

a) Injury or illness of three or more class days:
   Student will provide a medical confirmation note from his or her medical
   provider within one week of the last date of the absence (see Student
   Rules 7.1.6.1)

b) Injury or illness of less than three class days:
   Student will provide one or both of these (at instructor’s discretion),
   within one week of the last date of the absence:
   (i.) Texas A&M University Explanatory Statement for Absence
   from Class form available at http://attendance.tamu.edu
   (ii.) Confirmation of visit to a health care professional affirming
        date and time of visit.

7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be
   rescheduled.

In cases where prior notification is not feasible (e.g., accident or emergency) the student must
provide notification by the end of the second working day after the absence, including an
explanation of why notice could not be sent prior to the class.

Lab Etiquette:
1) No eating or drinking is allowed in the lab.
2) Please clean up your work area before you leave.
3) Absolutely no use of personal electronic devices is permitted. This includes laptops, tablets,
   and especially cell phones. If you break this rule you will receive a zero for your next quiz
   grade.

Bone Handling Guidelines (more to be presented in class):
1) Only touch and or hold the bones when you have a specific reason to.
2) When handling bones and casts, always use both hands and hold the specimen over padding.
3) Do not touch or point at the specimens with pens, pencils, or other sharp objects.
4) Do not pick up a skull by putting your fingers in the orbits or through the zygomatic arch.
5) If you want to look at the teeth on a skull that has an articulated mandible, always detach the
   spring first to prevent the mandible from snapping shut and damaging the teeth.
6) Remember that while casts are expensive to replace, real skeletal material is irreplaceable
   and is to be treated with the utmost care and respect.

Americans with Disabilities Act (ADA) Policy Statement:
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides
comprehensive civil rights protection for persons with disabilities. Among other things, this
legislation requires that all students with disabilities be guaranteed a learning environment that
provides for reasonable accommodation of their disabilities. If you believe you have a disability
requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call
845-1637. For additional information visit http://disability.tamu.edu.
Copyright & Plagiarism
All materials generated for use in this class are copyrighted. These include syllabi, exams, review sheets and other materials. Because these materials are copyrighted you do not have the right to copy them, unless I expressly grant permission. As commonly defined, plagiarism consists of passing off as one’s own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person.

Academic Dishonesty
Academic dishonesty is never tolerated at Texas A&M University, and should be actively discouraged by both the instructor and students (http://student-rules.tamu.edu/). Academic dishonesty comprises the unauthorized distribution of information and/or plagiarism. Any student caught cheating on an exam will receive a zero for that exam, and will be reported to the Department Head for further possible disciplinary proceedings at the discretion of the department of Anthropology and the College of Liberal Arts.

Academic Integrity
"An Aggie does not lie, cheat or steal or tolerate those who do.” Honor Council Rules and Procedures will be strictly followed and enforced in this class. If you have any questions about these rules, consult http://aggiehonor.tamu.edu.

Anthropology Diversity Statement
Respect for cultural and human biological diversity are core concepts of Anthropology. In this course, each voice in the classroom has something of value to contribute to class discussion. Please respect the different experiences, beliefs and values expressed by your fellow students and instructor, and refrain from derogatory comments about other individuals, cultures, groups, or viewpoints. The Anthropology Department supports the Texas A&M University commitment to Diversity, and welcomes individuals of all ages, backgrounds, citizenships, disabilities, education, ethnicities, family statuses, genders, gender identities, geographical locations, languages, military experience, political views, races, religions, sexual orientations, socioeconomic statuses, and work experiences (See http://diversity.tamu.edu/).
<table>
<thead>
<tr>
<th>Lab</th>
<th>Week of</th>
<th>Topic</th>
<th>Lab Assignment (done in class)</th>
<th>Homework due</th>
<th>Readings Due*</th>
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<tbody>
<tr>
<td>1</td>
<td>9/2</td>
<td>Introduction; Scientific Method; Evolution and Natural Selection</td>
<td>Lab Assignment 1</td>
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<td>Walker-Pacheco pp 1-5; 17-24; 35-38; 41-42; 47-52; Reading: Weiner “Evolution in Action”</td>
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<td>5</td>
<td>9/30</td>
<td>Primate Taxonomy</td>
<td>Quiz 4 Lab Assignment 5</td>
<td>Homework 2: Human Osteology</td>
<td>Walker-Pacheco pp. 235-236, 239-241, 245-247 Reading: Gould “What is a Species?”</td>
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<td>6</td>
<td>10/7</td>
<td>Primate Comparative Anatomy and Evolution</td>
<td>Quiz 5 Lab Assignment 6</td>
<td>Homework 3: Primate Taxonomy</td>
<td>Walker-Pacheco pp. 217-221; 225-226; 279-285 Reading: Krause “Washed up in Madagascar”</td>
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<td>7</td>
<td>10/14</td>
<td>Primate Behavior</td>
<td>Osteology Practical Exam Lab Assignment 7</td>
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<td>Readings: “One Great Ape”, Smuts “What Are Friends For?”</td>
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<td>8</td>
<td>10/21</td>
<td>Early Hominin Evolution and Bipedality</td>
<td>Quiz 6 Lab Assignment 8</td>
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<td>Walker-Pacheco pp. 303-305, 309-312, 315-316</td>
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<tr>
<td>Week</td>
<td>Date</td>
<td>Activity</td>
<td>Notes</td>
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<td>11</td>
<td>11/11</td>
<td>Modern Human Variation &amp; Forensics</td>
<td>Quiz 9 Lab Assignment 11 <strong>BRING CALCULATOR</strong></td>
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<td>Readings: Marks “<em>Science and Race</em>”; Jablonski “<em>Skin Deep</em>”; Maples, “<em>Dead Men Do Tell Tales</em>”</td>
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<td>12</td>
<td>11/18</td>
<td>FINAL PRACTICAL</td>
<td>Homework 6: Final Practical Review</td>
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<tr>
<td>13</td>
<td>11/25</td>
<td>NO LAB—THANKSGIVING</td>
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<tr>
<td>14</td>
<td>12/2</td>
<td>NO LAB—LAST DAY OF CLASS</td>
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