



# BIOLOGICAL ANTHROPOLOGY

## ANTH& 215 with lab



Bellevue College, Spring 2011

### *Welcome to Biological Anthropology!!!*

Anthropology is the holistic study of our species, *Homo sapiens*. Anthropologists combine methods, theories, and data from natural sciences, social sciences, and the humanities to examine the human experience in the broadest framework possible. Anthropology courses explore human biology, origins, prehistory, cultural diversity, and religious experience. This class focuses on humans as bio-cultural organisms, emphasizing an understanding of humans from an anthropological perspective.

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### Course Description

Biological Anthropology (ANTH& 215) offers an anthropological view of how human biological characteristics arose, our relation to non-human primates, and how we continue to be shaped by evolutionary forces. Major topics include human genetics, adaptation, monkeys, apes and prosimians, fossil evidence for human evolution and the study of biological diversity in contemporary human populations. ANTH& 215 is a 5-credit course that counts as a science credit (Item 5071). (Please note that either ANTH& 205 OR ANTH& 215 may be taken for credit, but not both. Only ANTH& 215 counts toward the Anthropology Concentration.)

### At the conclusion of Anthropology& 215 you should be able to:

1. To demonstrate an understanding of the historical contexts and consequences of natural science and social science concepts developed for and directed at a holistic and comparative approach to human behavior.
2. To recognize, identify and use the scientific method, in particular the principles of biocultural evolution, and to distinguish coherent arguments based on such principles from other claims.
3. To show knowledge of the general elementary principles of molecular, Mendelian and population genetics and their synthesis with evolutionary explanation.
4. To apply contemporary concepts in human biocultural variation, and distinguish such approaches from older paradigmatic formulations.
5. To recognize behaviors found throughout the primate order with particular attention to the social ecology of primate behavior.
6. To compare the gross anatomy of modern hominids and non-human primates and gain knowledge of their taxonomic classification.
7. To demonstrate detailed paleoanthropological knowledge of fossil hominoids and hominids, enabling the contrast, comparison and construction of hypothetical phylogenetic interpretations of hominid lineages and the selective evaluation of competing theories of hominization.

### How Course Outcomes will be Met

Outcomes will be addressed through visual materials, readings, discussions, labs, and exams.

### General Education Ratings

This course is rated "3" in the areas of "Critical Thinking" and "Nature of Science" and "2" in the area of "Science and the Natural World."

## Required Textbook

***Essentials of Physical Anthropology, 8th ed. ISBN: 978-0-8400-3259-1***

Robert Jurmain, Lynn Kilgore, and Wenda Trevathan.

### **Online Text Companion for Students:**

[http://www.wadsworth.com/cgiwadsworth/course\\_products\\_wp.pl?fid=M20b&product\\_isbn\\_issn=9780840032591&token=](http://www.wadsworth.com/cgiwadsworth/course_products_wp.pl?fid=M20b&product_isbn_issn=9780840032591&token=)

This textbook was chosen for a number of reasons:

- 1) it's one of the best on the market, written by a well-known authority,
- 2) it has ample free on-line support for students,
- 3) it's comprehensive, yet concise,
- 4) it's ideal for a quarter long course,
- 5) and it can be bought in an online format or rented from the publisher to help mitigate costs.

## Course Syllabus

You are required to review this syllabus and the attached Procedures and Guidelines of the Social Science Division. Enrollment in the course constitutes an agreement to abide by the policies set forth in these items.

## Course Outline

### **I. Introduction**

Anthropology as a Social Science  
Fields of Anthropology

### **II. Scientific Method & Physical Anthropology**

Applications  
Limitations  
Field Methods

### **III. Evolutionary Theory**

History of Scientific Knowledge  
Darwinian Evolution

Genetics and Natural  
Selection  
Modern Synthesis

### **IV. Human & Primate Evolution**

Primate Origins & the Fossil  
Record  
Human Fossil Record

### **V. Modern Human Variation & Adaptation**

Human Population  
Adaptations  
Biodemography

## What is the rhythm of this class?

***READ THIS SECTION VERY CAREFULLY. IF YOU CANNOT ADJUST YOUR SCHEDULE TO THE RHYTHM OF THE CLASS, YOU WILL HAVE A DIFFICULT TIME SUCCEEDING IN THIS COURSE.***

The on-line class has a very different rhythm from on-campus classes, and each on-line course is different from other on-line courses.

In this class, the first day of the 'on-line week' begins on a **Monday morning** at 12:01 AM and runs until a **Sunday night** at 11:59 PM when all work for that week must be completed. For example, Week 2 begins on Monday, April 11 at 12:01 AM and ends on Sunday, April 17 at 11:59 PM.

## Components of Course Assessment

A variety of instructional methods and learning opportunities exists for you to master class content.

### Attendance & Participation

It is well worth your time to “attend” class regularly and constructively participate. Ideally, you should log in on a daily basis, but minimally 5 times a week. Participation is easily monitored. For those who ‘participate’ in class more than 100 hours, 100 points will be earned; 90 – 100 hours = 90 points; 80 – 89 hours = 80 points; 70 – 79 hours = 70 points; 60 – 69 hours = 60 points; 50 – 59 hours = 50 points; 40 – 49 hours = 40 points; 30 – 39 hours = 30 points; 20 – 29 hours = 20 points; 10 – 19 hours = 10 points; less than 10 hours = 0 points.

The first day of the online week is a MONDAY at 12:01 am and the last day of the online week is SUNDAY at 11:59 pm. This schedule means that every Monday, a new weeks begins.

Your participation will be derived from your on-line activities and counts for up to 100 points of your grade.

### Discussions

A major part of the learning in this class comes from the exchange of ideas with other students. There are five discussions total, counting the introductory discussion. This dialogue will occur in the form of four major discussions about relevant topics. The discussion topic will be provided to you and there will usually be a reading to tie in the discussion to the week’s material.

There are 3 steps to the discussion:

1. When there is an article that is the focus of the discussion, read it first and think about the material.
2. Each student is to post an initial commentary (i.e., your informed analysis about the article in response to the question provided). This step must occur BEFORE Thursdays at 11:59 pm. Each initial commentary should be well written, proofread for grammatical and spelling errors, and substantive in content. About 200-300 words is an estimate of what is expected for an initial commentary. If you use any source at all, you must cite it. NO Wikipedia. Period.
3. Each student will comment on the initial posting of 2 other students. This step of the discussion will begin at 12:01 am on Fridays. Points will not be given if you comment on others’ posts before 12:01 am on Fridays. All comments must be posted before the following Sunday at 11:59 pm.

Each response posting should be about 100 words. Responses such as “I agree” or “Terrific job” do not count for credit. If you use any source at all, you must cite it. NO Wikipedia. Period.

All postings should be thoughtful, informed, respectful, substantive, and constructive.

If you miss a discussion, you cannot make it up since the moment will have passed. The discussion closes at the end of the week on Sunday night.

### Tutorials and Quizzes

A number of on-line tutorials are assigned. These tutorials will supplement and support the lecture materials and textbook. You are expected to complete these tutorials when assigned.

At the end of each tutorial, there is a quiz that you must take. You will then copy your two favorite multiple choice quiz questions and all possible answers (with correct answer indicated by \*) for the week’s tutorial (only 2 questions / week) into an email and send it to me by the end of the on-line week (Sunday at 11:59 pm). Each time you send me 2 questions from the week’s assignment, you receive 5 points for a maximum of 50 points. (Do not send a Word doc. Please type your questions into a mail message.)

To access the online tutorials, click on the links on found on each week’s overview page.

Sample multiple choice question format:

1. The person credited with the idea of natural selection is  
A. Charles Darwin      B. Alfred Russel Wallace      C. Gregor Mendel.      \*D. both A and B.

### Lab Activities

There are a total of 9 labs for this course and 1 lab reflection. These labs are designed to reinforce key concepts in the course, enhance your knowledge of course material, and provide you with a hands-on learning experience. A lab kit will be mailed to the address that each of you specify after DAY 10 of the course. This kit will include the supplies needed to complete the labs for this course.

**NO LATE WORK WILL BE ACCEPTED WITHOUT PRIOR APPROVAL BY THE PROFESSOR.**

### Exams

A major portion of your grade will be derived from 2 exams – a mid-term and a final exam. An exam may consist of multiple choice and true/false questions and may contain essay questions as well. More details about the mid-term and final exam will be distributed closer to the date of each. Stay tuned!

To take the exam, you will need to be familiar with Vista. Be sure you know how to successfully submit your answers when completed. Exam questions are derived from assigned readings, learning modules, videos/DVDs, handouts, discussions, activities, internet links, lectures, labs, and any other instructional material presented in class. It is helpful to turn off all electronic devices before the start of the exam so that you can fully concentrate.

Exam Dates & Materials Covered on Each Exam EXAM	DATE	MATERIALS COVERED
Mid-Term	Available Monday, May 9, 12:01 am Due by Sunday, May 15, midnight	Textbook Chapters 1, 2, 3, 4, 5, 6, 7, 8 All materials from April 4 – May 15
Final Exam	<b>Available: Mon. June 6 12:01 am</b> It is STRONGLY recommended that you complete all course materials first! <b>Due by: Wed. June 15 midnight</b>	Textbook Chapters 8,9,10,11,12,13,14 All materials from May 16- June 15  NOTE: this is not a cumulative exam

## GRADING

Grades will be calculated using points. You can earn up to 850 points during the quarter, distributed as follows:

Class Requirement	Value
2 Exams	400 points
"Attendance/Participation"	100 points
5 Discussions	125 points
10 Tutorial quizzes	50 points
9 Labs (23 points each)	207 points
1 Lab Reflection	18 points
<b>TOTAL POINTS</b>	<b>850 points</b>

Grading Final Grade & Corresponding Percentage	Corresponding Point Value
A = 92-100%	778-850 points
A- = 90-91%	761-777 points
B+ = 88-89%	744-760 points
B = 82-87%	692-743 points
B- = 80-81%	676-691 points
C+ = 78-79%	659-675 points
C = 72-77%	608-658 points
C- = 70-71%	591-607 points
D+ = 68-69%	574-590 points
D = 50%-67%	421-573 points
F = <50%	0-420 points

### Final Grades:

Students must complete all course requirements within the quarter in which the student enrolled before a final course grade will be issued.

"Official grades are available about 1 week after the quarter ends. Several ways to obtain your grades are:

1. BCC website: [www.bellevuecollege.edu](http://www.bellevuecollege.edu)
2. Kiosk in the Student Services Building or the Campus Information Center
3. Mail: leave a self-addressed stamped envelope at the Student Service Center, with your Student ID #.
4. In person at the Student Service Center."

## Affirmation of Inclusion

Bellevue College is committed to maintaining an environment in which every member of the campus community feels welcome to participate in the life of the college, free from harassment and discrimination.

We value our different backgrounds at Bellevue College, and students, faculty, staff members, and administrators are to treat one another with dignity and respect. This classroom is a SafeSpace.

Please check this website for further information: <http://bellevuecollege.edu/about/goals/inclusion.asp>

## Student Eco-Conduct

**Student Eco-Conduct:** Students are expected to make decisions that have the smallest environmental impact while maximizing student learning. This includes:

Think before printing documents for this class, adjust the printable margins, print double sided and reuse any paper as scratch paper.

Turn in papers electronically or when necessary turn in printed assignments double sided, single spaced and using small margins of at least .75 inches.

Recycle all paper, bottles and cans.

Adjust the power settings on your computer so the monitor and CPU will sleep after 20 minutes of inactivity. Turn off all electronic devices such as computers and printers, when you are finished with them.