

Spring 2013

ANT 3514C – Introduction to Biological Anthropology

Department of Anthropology, University of Florida

- Time:** Tuesdays 1:55 – 2:45 pm (Period 7)
Thursdays 1:55 – 3:50 pm (Periods 7-8)
- Place:** 0101 Little Hall (Lectures)
B304 Turlington Hall Basement (Labs)
- Website:** <https://lss.at.ufl.edu> * click on (1) e-Learning in Sakai, (2) Log In:
ANT3514C – Introduction to Biological Anthropology (Krigbaum) – Spring 2013 - All Sections
- Contact:** To communicate via e-mail with the Instructor and/or Teaching Assistants, please use 'mail' in e-Learning in Sakai.
- Instructor:** Dr. John Krigbaum, Associate Professor & Undergraduate Coordinator
office: 1350A Turlington Hall
office hours: Thursdays 10:30-12:30 and by appointment.
(advising hours: Tuesdays 10:30-12:30 and Wednesdays 1:00-3:00)
email: krigbaum@ufl.edu
tel: (352) 294-7540
- Teaching Assistants:** Students are encouraged to seek help from any TA, not simply the one who proctors their assigned lab section.
- Ellen Lofaro (Sections: 6269, 0327, 0316)
office: B307 Turlington Hall. tel: (352) 294-7543
office hours: Wednesdays 9:30-11:30, or by appointment
- Gypsy Price (Sections: 0322, 3800, 0328)
office: B307 Turlington Hall. tel: (352) 294-7543
office hours: Tuesdays 3:00-5:00, or by appointment
- Deven Vyas (Sections: 0319, 3790, 3929)
office: B307 Turlington Hall. tel: (352) 294-7543
office hours: Mondays 3:00-4:00 &
Wednesdays 12:35-1:35, or by appointment

Objectives & Goals

Anthropology is a holistic discipline. As such, anthropologists attempt to view humans, their activities, and their cultural and biological history in as broad a context as possible. Such a vast field is divided into a number of subfields, of which biological anthropology (= physical anthropology) will be introduced to you in this course. Its goal is to understand the biological nature and history of humankind and their living (= extant) relatives.

Biological anthropology is firmly rooted in evolutionary theory. The evolutionary biology of humans is thus the central focus of the course. We will cover many topics pertaining to the group of mammals that humans belong, the Order Primates. Basic concepts of genetics, geology, paleontology, comparative anatomy, primate biology, ecology, and material culture provide the foundation for understanding humanity's place in nature.

Fundamentals in biology and geology will be related to understanding the context and circumstances that have allowed our bodies and behaviors to change over time. The inheritance of genetic variation will be discussed as it relates to evolutionary change. Aspects of human biological variation, both genetic and "physical," will be discussed with respect to modern human polymorphisms and the evolutionary forces affecting adaptation. "Primates" will be introduced as we learn about the fields of primatology, comparative anatomy, and conservation biology. We will learn about the newest techniques in molecular biology used to address a whole range of issues in evolutionary biology, wildlife conservation, and forensic anthropology.

Stepping far back in time, as paleoanthropologists, we will learn about some of the more significant fossil primate finds with particular emphasis on the common ancestor of humans and the African great apes. At about 2.5 million years ago, our genus *Homo* first appears in the fossil record. At about this same time the first evidence of material culture in the form of stone tools appears in the record. We will review the archaeological and biological evidence of our hominin ancestry and focus on the biocultural revolution that took place from that time in prehistory to the present. Biomedical aspects of health and disease will be reviewed as will the overall state of the human condition.

Student Learning Outcomes 'SLOs'

Content

- Identify, describe, explain, and apply factual, conceptual, and procedural knowledge in biological anthropology.

Critical Thinking

- Apply the scientific approach to investigate human variation in its biological, social and cultural dimensions.
- Integrate different sources and types of knowledge into holistic perspectives about human variation.
- Evaluate the significance, quality and veracity of information and apply it effectively to solve problems.

Grading: ALL material covered in this course is fair game for exams.

TAKE GOOD NOTES.

- Proctored Exams (N=3) 60% (300 points) (3 exams, plus extra credit points)
- On-Line Quizzes (N=6) 7% (25 points) (10 points each, adjusted to 5 points)
Lowest quiz score dropped)
- In-Class 'Pop' Quizzes (N≥5) 3% (25 points) (5 points each)(top five count)
- Labs (N=11) 30% (150 points) (participation, assignments, 2 Exams)

Percentile Breakdown: 93.50-100 = A; 90-93.49 = A-; 86.5-89.49 = B+; 83.5-86.49 = B; 80-83.49 = B-; 76.5-79.99 = C+; 73.5-76.49 = C; 70-73.49 = C-; 66.5-69.99 = D+; 63.5-66.49 = D; 60-63.49 = D-; <59.99 = E.

Grades are determined out of 500 points. There is no organized review session prior to exams in class, but the TAs will provide the opportunity for group review in addition to their office hours. Exams will include objective questions (matching, multiple choice, true/false), and may include some problems to solve (no calculators required). Exams will not be comprehensive. Quizzes are scheduled to keep you “on top” of the material prior to Exams. There will be two “extra credit” opportunities in addition to lab assignments that the TA’s will assign and grade. Awarded extra credit points (maximum of 20) will be added to the in-class point tally (350 points) only.

MAKE-UP EXAMS:

Make-up exams will not be scheduled unless demonstrated illness, serious emergency, or major scheduling conflict with proof provided to the Instructor. An official letter, following university procedures, is expected prior to the exam date so that a make-up exam can be arranged.

REQUIRED Textbooks:

Jurmain, R., Kilgore, L., Trevathan, W., and Ciochon, R.L. 2012. *Introduction to Physical Anthropology*, 2011-2012 Ed. Belmont, CA: Wadsworth.

National Geographic Learning Reader: Biological Anthropology (bundled with new text)

Readings: Miscellaneous on-line resources and pdf files will be made available via Sakai.

ATTENDANCE

- No Labs first week of class (January 8-10, 2013).
- Attendance is required at every scheduled lecture and lab (4 credit course = 4 hours per week). Students are responsible for *all* material covered in lecture and lab.
- There will be more than (>5) five ‘pop’ quizzes (3% of your grade) during the semester that will not be excused if missed.
- University Attendance Policies apply for both Lecture and Lab. Refer to the following: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

| Period – Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------------------|--------|------------------|------------------|------------------|--------|
| 2 – 8:30 - 9:20 | | | | | |
| 3 – 9:35 - 10:25 | | Lab (0319) DV | | Lab (3929) DV | |
| 4 – 10:40 - 11:30 | | Lab (0322) GP | | Lab (3800) GP | |
| 5 – 11:45 - 12:35 | | | Lab (3790) DV | Lab (0328) GP | |
| 6 – 12:50 - 1:40 | | | Lab (6269) EL | | |
| 7 – 1:55 - 2:45 | | LECTURE | Lab (0327) EL | LECTURE | |
| 8 – 3:00 - 3:50 | | | Lab (0316) EL | LECTURE | |

Student Conduct

- Students should behave in accordance to the University of Florida's student conduct code: <http://www.dso.ufl.edu/sccr/honorcodes/conductcode.php>
- NO PHOTOGRAPHY/RECORDING OF ANY KIND DURING LECTURE (without permission)
- PLEASE TURN OFF CELL PHONES IN CLASS (i.e., no texting)
- LAPTOPS ARE FOR NOTETAKING ONLY. PLEASE DO NOT FACEBOOK/EMAIL.

Academic Honesty and Integrity

All students must comply to the University of Florida's Student Honor Code:

We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.

On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied:

"On my honor, I have neither given nor received unauthorized aid in doing this assignment."

(1) All students are required to abide by the Student Honor Code.

(2) The conduct set forth hereinafter constitutes a violation of the Student Conduct Code. Those adjudged to have committed such conduct shall be subject to the sanctions provided in Rule 6C1-4.016, F.A.C.

For more information, please refer to the following link: <http://www.dso.ufl.edu/sccr/honorcode.php>

Accommodation

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. Accommodation must be requested in the first two weeks of class by January 18, 2013. The Disability Resource Center is located in Reid Hall, Room 001. For more information, please refer to the following link: <http://www.dso.ufl.edu/drc/>

If you need help, the Counseling and Wellness Center (tel. 352-392-1575; 3190 Radio Road) is a good place to refer to. <http://www.counseling.ufl.edu/cwc/Default.aspx>



Spring 2013 OFFICE HOURS : B307 Turlington Hall (EL, GP, DV) &
1350A Turlington Hall (JK)

| Period – Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------------------|-----------|------------------|---------------------------------|---------------------------------|--------|
| 2 – 8:30 - 9:20 | | | | | |
| 3 – 9:35 - 10:25 | | Lab (0319) DV | EL office | Lab (3929) DV | |
| 4 – 10:40 - 11:30 | | Lab (0322) GP | EL office | Lab (3800) GP (JK office) | |
| 5 – 11:45 - 12:35 | | | Lab (3790) DV | Lab (0328) GP | |
| 6 – 12:50 - 1:40 | | | Lab (6269) EL (DV office) | | |
| 7 – 1:55 - 2:45 | | LECTURE | Lab (0327) EL | LECTURE | |
| 8 – 3:00 - 3:50 | DV office | GP office | Lab (0316) EL | LECTURE | |
| 9 – 4:05 – 4:55 | | GP office | | | |

| Date | | Lecture | Reading | Lab |
|--------------------------------|-----------|------------------------------|--|--|
| | | | Readings and on-line resources will be made available via Sakai on a weekly basis. | Please access and print out labs placed in Sakai 'Resources' folder. Labs will be uploaded the weekend before that week's lab. |
| I. Introduction | | | | |
| T | 8-Jan | Introduction | 1:3-19 | ** NO LABS ** |
| R | 10-Jan | Scientific Inquiry | 1:20-25; 2:27-36 | |
| II. Evolutionary Basics | | | | |
| T | 15-Jan | Darwin & Co. | 2:36-49 | LAB 1 Natural Selection |
| R | 17-Jan | Biological Basis of Life | 3:51-79 | |
| | 18-22-Jan | on-line Quiz 1 | | |
| III. Genes | | | | |
| T | 22-Jan | A Genetics Primer | 4:81-99 | LAB 2 Mendelian Genetics |
| R | 24-Jan | Selection & Other Key Forces | 4:100-109 | |
| IV. Forces of Evolution | | | | |
| T | 29-Jan | Modern Evolutionary Theory | 5:111-126 | LAB 3 Evolutionary Forces |
| R | 31-Jan | Human Variation & Adaptation | 15:433-459; 16:461-481 | |
| | 1-5-Feb | on-line Quiz 2 | | |
| V. Human Variability | | | | |
| T | 5-Feb | EXAM I | | LAB 4 The Human Skeleton |
| R | 7-Feb | Introduction to the Primates | 6:143-181 | |
| VI. The Primate Order | | | | |
| T | 12-Feb | Comparative Primate Anatomy | | LAB 5 Comparative Primate Anatomy |
| R | 14-Feb | Primate Ecology & Behavior | 7:183-209 | |
| | 15-19-Feb | on-line Quiz 3 | | |
| VII. More Primates | | | | |
| T | 19-Feb | Primate Behavior Models | 8:211-237 | LAB 6 Primate Behavior |
| R | 21-Feb | The History of Life | 5:126-138 | |

| Date | | Lecture | Reading | Lab |
|--|-----------------|-----------------------------------|--|--|
| | | | Readings and on-line resources will be made available via Sakai on a weekly basis. | Please access and print out labs placed in Sakai 'Resources' folder. Labs will be uploaded the weekend before that week's lab. |
| VIII. Paleontology | | | | |
| T | 26-Feb | Paleontology & Geological Context | | LAB |
| R | 28-Feb | Primate Evolution I | 9:239-281 | LAB Practical Exam I |
| | 2-9-Mar | SPRING BREAK | | |
| IX. Primate Evolution | | | | |
| T | 12-Mar | Primate Evolution II | | LAB 7 |
| R | 14-Mar | What is a Hominin? | 10:283-287; 304-309 | Primate Evolution |
| | 15-19-Mar | on-line Quiz 4 | | |
| X. Hominin Origins | | | | |
| T | 19-Mar | EXAM II | | LAB 8 |
| R | 21-Mar | Mio-Pliocene Hominins | 11:311-333 | Mio-Pliocene Hominins |
| XI. Australopiths and early <i>Homo</i> | | | | |
| T | 26-Mar | Australopiths | 10:288-304; 11:333-339 | LAB 9 |
| R | 28-Mar | Plio-Pleistocene Hominins | | Plio-Pleistocene Hominins |
| | 29-Mar to 2-Apr | on-line Quiz 5 | | |
| XII. Out of Africa | | | | |
| T | 2-Apr | <i>Homo erectus</i> | 12:341-365 | LAB 10 |
| R | 4-Apr | Film: Transitional Hominins | | Transitional Hominins |

| Date | | Lecture | Reading | Lab |
|----------------------------------|-----------|--------------------------|--|--|
| | | | Readings and on-line resources will be made available via Sakai on a weekly basis. | Please access and print out labs placed in Sakai 'Resources' folder. Labs will be uploaded the weekend before that week's lab. |
| XIII. <i>Homo sapiens</i> | | | | |
| T | 9-Apr | Origins of Modern Humans | 13:367-401 | LAB 11 |
| R | 11-Apr | Modern Human Dispersal | 14:403-431 | <i>Homo sapiens</i> |
| XIV. The Human Experience | | | | |
| T | 16-Apr | Bioarchaeology | 17:483-505 | LAB |
| R | 18-Apr | The Human Condition | 18:507-517 | LAB Practical Exam II |
| | 19-23-Apr | on-line Quiz 6 | | |
| XV. Closer | | | | |
| T | 23-Apr | EXAM III | | |