

**AN222: Biological Anthropology (Lecture)
Spring 2011, University of Guam**

Instructor: Dr. Stephen Acabado

Office: HSS 120A

Office Hours: Mondays, 12-2pm; Tuesdays and Thursdays, 11am-1pm

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CLASS MEETINGS

Mondays, 9:00-11:40am

HSS 110

COURSE DESCRIPTION

Description from the Course Catalog

This course surveys the field of modern Biological (Physical) Anthropology, with a focus on the study and interpretation of human and non-human primate evolution, contemporary human biological diversity, and the biocultural, ecological and historical dynamics of selective factors, including diseases that have impacted – and continue to impact – on the human condition.

Course Objectives

This course introduces students to the multi-faceted discipline of Biological (or Physical) Anthropology – the study of human evolutionary history, adaptation, and variation. By completing this class, students will:

1. Understand the principles of evolutionary theory and how they have been applied to improve our understanding of the human condition;
2. Be exposed to the principles of evolutionary genetics, and learn how molecular genetics plays a fundamental role in the evolutionary processes that act on humans;
3. Be introduced to our closest living relatives, the nonhuman primates, and learn what insights into the human condition have been obtained from studying these animals;
4. Be exposed to the primate fossil record that spans more than 50 million years and has given rise to modern humans and the other living primates, as well as many extinct lineages; and,
5. Be introduced to the bewildering variation that exists both within and between modern human populations.

Student Learning Goals

Students completing this course will achieve a fuller understanding of (a) how to think scientifically, (b) how evolution works, (c) humans as primates, (d) human evolutionary history, and (e) human variation.

Required Text:

A course packet that includes readings and lab exercises is required for this course.

Required or Expected Skills and Background:

Prerequisite: Anthropology (AN) 101, Introduction to Anthropology

Course Requirements:

Your grade in this course will be based on two long examinations, 10 laboratory exercises, and 2 long laboratory practical examinations. In addition, there will be an opportunity to earn up to 10 extra credit points (or an additional 3% towards your final course grade) by visiting the Guam Zoological Park and observing the non-human primates exhibits. A two- to three-page paper is required.

Grading:

Two long examinations (based on the lecture component) (100 points each x 2)	200 points
Video and reading responses (10 points each x 10)	100
Laboratory Exercises (10 points each x 10)	100 points
Two practical examinations (based on the laboratory component (100 points each x 2)	200 points
TOTAL	600 points

Standard grade	Grade	Final Score (out of 600)
90+	A	540+
80-89	B	480-534
70-79	C	420-474
60-69	D	360-414
<59	F	<354

Class Etiquette: Please **deactivate** all pagers, cell phones, and other electronic devices during class. The use of electronic devices, unless specifically approved by the instructor, during class and exams is prohibited. **Be punctual!**

Spring 2011
Biological Anthropology
Course Schedule

The following schedule is provided as a general guideline. Minor changes are expected throughout the course.

Week	Date	Topic	Reading Assignments and Web Resources
1	1/19	Course Overview and Introduction to Anthropology Lab Introduction	WHAT IS ANTHROPOLOGY? EARLY THEORIES OF EVOLUTION 1. Understanding Ourselves: C.P. Kottak, 2010. New York
2	1/24	What is Physical Anthropology? Video: The talking Skull: Forensic Anthropology (VT 88.00.02) Video: Challenging the Human Evolution Model (VT 88.06.07)	2. What is Physical Anthropology? Chapter 1, C.S Larsen 3. K.A Dettwyler and M. Browning. Bad Breath, Gangrene, and God's Angels. 4. W.R Maples . Examining the Bones of the "Elephant Man". How Evolution Gave Us the Human Edge
3 & 4	1/31 & 2/7	The Development of Evolutionary Thought What is Evolution The Scientific Method Video: Understanding Evolution (VT 88.05.21)	5. Jurmain et al. The Development of Evolutionary Thought 6. S.J Gould. Sex, Drugs, and the Extinction of Dinosaurs 7. M.A. Park. Palmistry: Science or Hand-Jive 8. S.J Gould. Evolution as Fact and Theory 8.1 Between Darwin and God 9. R.S. Root-Bernstein. Darwin's Rib
5 & 6	2/14 & 2/21	The Biological Basis of Life The Cell DNA Structure DNA Replication Protein Synthesis What is a Gene? Modern Human Variation	10. Lewis et al. Heredity and Evolution 11. J.G. Mendel. The Laws of Inheritance 12. J.B. de Lamarck. The Inheritance of Acquired Characteristics

		<p>Video: The Cosmic Link (VT 85.03.11)</p> <p>Video: Genetic Roots of the Human Family Tree (VT 85.03.00)</p>	<p>13. Lewis et al. Modern Human Variation</p>
7	2/28	<p>Non-Human Primates Fundamentals of Primate Behavior</p> <p>Video: The Aquatic Ape (VT 88.18.05)</p> <p>Video: The Ape: So Human! (VT 88.18.04)</p>	<p>14. C.S. Larsen. Biology in the Present: Other Living Primates</p> <p>15. Jurmain et al. Fundamentals of Primate Behavior</p> <p>16. K.B. Strier. Menu for a Monkey</p> <p>17. C. Zimmer. Tooling through the Trees</p> <p>Non-Human Primates</p>
8	3/7	<p>Process of Macroevolution: Mammalian/Primate Evolutionary History</p> <p>Video: Microevolution (VT 85.00.09)</p> <p>Video: Macroevolution (85.00.10)</p>	<p>18. Jurmain et al. Processes of Macroevolution</p> <p>19. S.J. Gould. What is a Species?</p>
9	3/14	First Long Examination	
10 & 11	3/21 & 3/28	<p>The Hominids Ardipithecines Australopithecines</p> <p>Video: The Ape Man: The Human Puzzle (VT 88.05.11)</p>	<p>20. Rice and Moloney. Chapter 4. What is a Hominid?</p> <p>21. M. Lemonick and A. Dorfman. Up from the Apes Early Hominid Evolution</p> <p>PBS: Human Evolution</p>
12	4/4	<p>Neanderthals and other Archaic Homo sapiens Modern Homo sapiens</p> <p>Video: Out of Asia (VT 88.06.00)</p>	<p>22. Rice and Maloney. Chapter 5. The Genus Homo</p> <p>23. K.L. Feder. Dawson's Dawn Man: The Hoax at Piltown</p> <p>24. Jurmain et al. Neandertals</p>
13	4/11	The Genus Homo Continuity (Multiregional Hypothesis)	<p>25. Jurmain et al. Homo sapiens</p>

		<p>Replacement (Out-of-Africa) Microevolution in Modern Human populations</p> <p>Video: Ape Man: Giant Strides (VT 88.05.12)</p>	<p>26. Jurmain et al. Microevolution</p>
14	4/25	<p>Human variation and Adaptation The Legacies of Human Evolutionary History</p> <p>Video: Race Video: Divided We Stand (VT 85.03.05)</p>	<p>27. Jurmain et al. Human variation 28. B. Boggin. The Tall and Short of it. 29. J. Diamond. Curse and Blessing of the Ghetto 30. Jurmain et al. Legacies of Human Evolutionary History</p>
15	4/25	2 nd Long Examination	
16	5/2	Course wrap up	