

SYLLABUS
ANTH 100 (online) – History and Theory of Biological Anthropology
Anthropology Department, UC Santa Cruz
Summer 2022
Course developed by: Jay S. Reti, Ph.D.

Lecture Time: Online, asynchronous
Class Location: Online

Instructor: Renee D. Boucher, M.A.
Contact: rdbouche@ucsc.edu
Office hours: by Zoom appointment via email

COURSE DESCRIPTION:

This course is designed to provide the historical and theoretical overview of biological anthropology through the history of evolutionary theory and thought. By watching lectures, weekly readings, and mini quizzes, students will learn about the emergence of evolutionary theory and the key scholars who have contributed to its development. Course topics will include the development of evolutionary theory and the modern synthesis, the advent of evolutionary developmental biology, reactions against rising adaptationist conclusions, modern applications to biological anthropological theory, and how researchers today are reframing biological anthropology considering its origins. These topics will help students understand how biological anthropology has emerged as a major discipline within the social sciences.

COURSE OBJECTIVES:

In this course, students will be exposed to a wide array of academic literature concerning the history and theory of biological anthropology. A successful student will:

- 1) have working knowledge of the key historic texts and ideas that have contributed to our understanding of evolutionary principles today,
- 2) be able to articulate how changing evidence has influenced our understanding of evolutionary theory,
- 3) apply their knowledge of evolutionary theory to topics in biological anthropology, and
- 4) form a critical eye in analyzing textual sources related to evolutionary theory and biological anthropology.

Course assignments (papers and discussion responses) will allow students to actively engage with the literature to demonstrate their broader understanding of how the theory of evolution has changed through time.

REQUIRED TEXT:

This course will be using an assortment of research articles. These articles are available on the Canvas website. Students will also be required to read excerpts of Darwin's *On the Origin*

of *Species* over the 5-week class. Students may purchase a paper copy of the book or access the pdf version of the book available on the UCSC Canvas course website.

COURSE REQUIREMENTS:

Your grade will be determined via the following:

Discussion Forum Posts: 30%

Midterm Exam: 30%

Final Exam: 30%

Quizzes: 10%

The exams will consist of a combination of short responses and open-ended longer response questions. Weekly discussions will be based on assigned small groups (3-4 students per group). Each group will be responsible for coming up with a collaborative response to a weekly question concerning the lecture and assigned articles (your “small group discussion response”). Weekly small group discussion participation should take place by the due date noted for each module (noted in the course schedule and below). Please coordinate with your small group to find online discussion meeting times that work for everyone.

This collaborative response must be posted to the class-wide discussion post for that section by the due date outlined in the course schedule found below. Each student must then read these responses and respond to another group (your “large group response”) by the due date listed in the schedule below. Instructors will monitor these discussions for accuracy and analysis, clarifying where needed.

STUDENT PARTICIPATION:

The expectation within the University of California system is that for each credit hour of a course, students spend 3 hours in preparation during the week. A summer course is a condensed version of a 10-week quarter into a 5-week session. For a 5-credit course, this means that the students should be spending about 30 hours/week preparing for class! An approximate distribution of the work time for this course each week is as follows: roughly 6 hours viewing/engaging with lectures, roughly 15 hours reading and reviewing course material, and 4 hours conducting research or writing for class assignments.

MISSING DEADLINES:

Missed assignments are scored as zero. If you need an extension, then request one *at least 24 hours before the deadline*. In the event of illness or emergency, you are responsible to inform the instructor as to why your assignments will be late.

STUDENT ACCOMMODATIONS:

UC Santa Cruz is committed to creating an academic environment that supports its diverse student body. If you are a student with a disability who requires accommodations to achieve equal access in this course, please submit your “Accommodation Authorization Letter”

<p>Week 2 (June 27-July 1st)</p> <p>Lamarck, Darwin, Owen & Huxley</p>	<p><u>Module 3: Lamarck and Darwin</u></p> <p><u>Module 4: Owen & Huxley</u></p> <p>Readings</p> <p>Darwin 1859 – “Preface” and “Chapter 1” Mayr 1972 – “Lamarck Revisited” Owen 1860 – Review of <i>On the Origin of Species</i> Huxley 1887 – On the reception of <i>The Origin of Species</i></p> <p>Assignments</p> <ol style="list-style-type: none"> 1. Lecture viewing due by Monday, June 27th 2. Watch film “What Darwin Didn’t Know” by Tuesday, June 28th 3. <u>Module 3 & 4</u> Small group discussion posts due by Wednesday, June 29th 4. <u>Module 3 & 4</u> Large group discussion posts due by Thursday, June 30th
<p>Week 3 (July 4-8th)</p> <p>Mutationism & Evolutionary Synthesis</p> <p>**MIDTERM**</p> <p>Will open Friday, July 1st</p>	<p><u>Module 5: Mutationism & Evolutionary Synthesis</u></p> <p>Readings</p> <p>Bowler 1977 – “De Vries and Morgan: The mutation theory and Darwinism” Stauffer 1957 – “Haeckel, Darwin, and Ecology”</p> <p>Assignments **NOTE: revised deadlines**</p> <ol style="list-style-type: none"> 1. Lecture viewing due by Monday, July 4th 2. <u>Module 5</u> Small group discussion posts due by Tuesday, July 5th 3. <u>Module 5</u> Large group discussion posts due by Wednesday, July 6th <p><u>Module 6 - Midterm: Due Friday, July 8th via Canvas Upload by 12:00PM (NOON)</u></p> <p>Readings to prepare</p> <p>Midterm Prompts & Guidelines</p> <p>2 essay prompts, 3-4 pages each, MAX: 8 pages per prompt</p>
<p>Week 4 (July 11-15th)</p>	<p><u>Module 7: The Modern Synthesis & Anti-Adaptationists</u></p> <p><u>Module 8: Sociobiology & Sexual Selection</u></p> <p>Readings</p> <p>Mayr & Provine (1981) – “The Evolutionary Synthesis” Barash (1976) – “Male Response to Apparent Female Adultery in the Mountain</p>

<p>The Modern Synthesis, Anti-Adaptionists, Sociobiology, & Sexual Selection</p>	<p>Bluebird” Gould & Lewontin (1979) – “The Spandrels of San Marcos” Dawkins (2006) – Chapter 6 in <i>The Selfish Gene</i> Andersson (1994) – “Sexual Selection”</p> <p>Assignments</p> <ol style="list-style-type: none"> 1. Lecture viewing due by Monday, July 11th 2. Watch film “Lord of the Ants” by Tuesday, July 12th 3. <u>Module 7 & 8</u> Small group discussion posts due by Wednesday, July 13th 4. <u>Module 7 & 8</u> Large group discussion posts due by Thursday, July 14th
<p>Week 5 (July 18-22nd)</p> <p>Ancient DNA, Cladistics & the Modern Debate</p>	<p><u>Module 9: Ancient DNA & Evo-Devo</u> <u>Module 10: Cladistics & the Modern Debate</u></p> <p>Readings</p> <p>Hall (2003) – “Evo-Devo: Evolutionary Developmental Mechanisms” Sankararaman et al. (2014) – “The Genomic Landscape of Neanderthal Ancestry in Present-day Humans” Gunz et al. (2010) – “Humans vs. Neanderthal Brain Developmental Patterns” Wells & Dembski (1989) – Excerpt from <i>Of Pandas and People</i></p> <p>Assignments **NOTE: revised deadlines**</p> <ol style="list-style-type: none"> 1. Lecture viewing due by Monday, July 18th 2. <u>Module 9</u> Small group discussion posts due by Tuesday, July 19th 3. <u>Module 10</u> Large group discussion (“Takeaways and Reflections”) posts due by Wednesday, July 20th
<p>Week 5 (July 22nd)</p> <p>**FINAL** Will open Friday, July 15th</p>	<p>Due Friday, July 22nd via Canvas Upload by 12:00PM (NOON)</p> <p>Readings to prepare</p> <p>Final Prompts & Guidelines 4 essay prompts, 2-3 pages each, MAX: 8-10 pages</p>