



COURSE OUTLINE : ANTHR 111

D Credit – Degree Applicable

COURSE ID 004052

Cyclical Review: October 2020

COURSE DISCIPLINE : ANTHR

COURSE NUMBER : 111

COURSE TITLE (FULL) : Physical Anthropology Laboratory

COURSE TITLE (SHORT) : Physical Anthro Laboratory

CALIFORNIA STATE UNIVERSITY SYSTEM C-ID : ANTH 115 L - Biological Anthropology Laboratory

CATALOG DESCRIPTION

ANTHR 111 is the laboratory course for Physical Anthropology. Laboratory exercises include the observation and interpretation of: natural selection and evolution; Mendelian, molecular, and population genetics; non-human primate anatomy, taxonomy, and behavior; fossil evidence of hominid evolution; forensic anthropology; human osteology; and human physical variation.

Total Lecture Units: 0.00

Total Laboratory Units: 1.00

Total Course Units: 1.00

Total Lecture Hours: 0.00

Total Laboratory Hours: 54.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 54.00

Total Out-of-Class Hours: 0.00

Prerequisite: ANTHR 101 (ANTHR 101 may be taken concurrently). Recommended Preparation: ENGL 100 or ESL 141.



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ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1	ANTHR	101	Physical Anthropology	Describe the scientific process as a methodology for understanding the natural world;	No
2	ANTHR	101	Physical Anthropology	define the scope of anthropology and discuss the role of biological anthropology within the discipline;	No
3	ANTHR	101	Physical Anthropology	identify the main contributors to the development of evolutionary theory;	No
4	ANTHR	101	Physical Anthropology	explain the basic principles of Mendelian, molecular and population genetics;	No
5	ANTHR	101	Physical Anthropology	evaluate how the forces of evolution produce genetic and phenotypic change over time;	No
6	ANTHR	101	Physical Anthropology	demonstrate an understanding of classification, morphology and behavior of living primates, and primate identification;	No
7	ANTHR	101	Physical Anthropology	summarize methods used in interpreting the fossil record, including dating techniques;	No
8	ANTHR	101	Physical Anthropology	recognize the major groups of hominin fossils and describe alternate phylogenies for human evolution;	No
9	ANTHR	101	Physical Anthropology	identify the biological and cultural factors responsible for human variation.	No
10	ESL	141	Grammar and Writing IV	Compose a 400 to 450-word thesis-based essay which: (a) summarizes and cites appropriately a reading passage provided as a prompt, (b) includes a clear thesis statement, (c) uses evidence to support the thesis, (d) shows clear organization into an introduction, body, and conclusion, and (e) uses appropriate rhetorical modes such as comparison/contrast, cause/effect, and persuasion in order to support a thesis.	Yes
11	ENGL	100	Writing Workshop	Read, analyze, and evaluate contemporary articles and stories to identify topic, thesis, support, transitions, conclusion, audience, and tone;	Yes
12	ENGL	100	Writing Workshop	read, analyze, and evaluate contemporary articles and stories for the comprehension of difficult content and the identification of main ideas and (topic-based) evidence;	No



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13	ENGL	100	Writing Workshop	read, analyze, and evaluate student compositions for unity, development, use of evidence, interpretation, coherence, and variety of sentence form;	No
14	ENGL	100	Writing Workshop	write a summary of a contemporary article or story with correct citation techniques;	Yes
15	ENGL	100	Writing Workshop	write an argumentative essay that has an introduction, body paragraphs, and a conclusion, demonstrating a basic understanding of essay organization;	No
16	ENGL	100	Writing Workshop	write an argumentative essay that addresses the topic, is directed by a thesis statement, uses appropriate textual evidence, develops logical interpretations, and concludes with some compelling observations;	No
17	ENGL	100	Writing Workshop	write an argumentative essay that integrates the ideas of others (i.e., authors) through paraphrasing, summarizing, and quoting with correct citation techniques;	No
18	ENGL	100	Writing Workshop	write an argumentative essay that generates novel ideas (those that add to the conversation rather than repeating the author's ideas) related to the topic and the readings;	No
19	ENGL	100	Writing Workshop	write compositions (e.g., summaries and argumentative essays) that are easy to read and follow, though some errors in grammar, mechanics, spelling, or diction may exist;	No
20	ENGL	100	Writing Workshop	proofread and edit essays for content, language, citation, and formatting problems.	No

EXIT STANDARDS

- 1 Describe the scientific process as a methodology for understanding the natural world;
- 2 describe and define natural selection, evolution, and the processes that shape them;
- 3 solve simple and advanced Mendelian and population genetics problems;
- 4 outline the most important steps in protein synthesis, and relate those steps to mutational errors and how natural selection is made meaningful on a genetic level;
- 5 identify the important morphological conditions found in hominid fossils;
- 6 identify biasing agents in the fossil record;
- 7 identify human bones and features of bones to interpret both non-human primate and hominid material;
- 8 describe the ways human variation has been examined and critique both how the scientific and social communities have used data;
- 9 evaluate the behavior of non-human primates.



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STUDENT LEARNING OUTCOMES

- 1 discuss hominid and non-human primate anatomy and behavior and make inferences about behavior from morphological characteristics of skeletons;
- 2 analyze the record of fossil forms leading to the characteristic structure of modern Homo sapiens, identifying human variation at the individual and group levels.

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	Scientific Method, Natural Selection, & Basic Evolution <ul style="list-style-type: none"> • What the scientific method is and how it works • The nature and function of natural selection • Evolution and how it can be modeled 	0	4	4
2	Human Genetics <ul style="list-style-type: none"> • Mendelian genetics • Molecular genetics • Population genetics 	0	12	12
3	Anatomy and Primate Taxonomy <ul style="list-style-type: none"> • Basic skeletal anatomy • Primate skeletal anatomy & taxonomy • Sexual dimorphism 	0	10	10
4	Primate Behavior <ul style="list-style-type: none"> • Value of studying non-human primate behaviors to evolutionary anthropologists and paleoanthropologists • Conduct and biases of behavioral studies • Observations of living primates (fieldwork) • Interpretations of living primate data 	0	4	4
5	Fossil Record and Hominid Evolution <ul style="list-style-type: none"> • Archeological methods and dating techniques • Early hominids • Bipedalism • Genus Homo • Dental morphology & diet 	0	12	12
6	Human Variation <ul style="list-style-type: none"> • Pulse rate and body temperature lab • Bone anthropometry and dermatoglyphics 	0	7	7
7	Forensic Anthropology <ul style="list-style-type: none"> • Bone trauma • Bone pathology • Determination of age, sex and cause of death 	0	5	5
				54



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OUT OF CLASS ASSIGNMENTS

- 1 out of class visits and field trips (e.g., attending primate lectures at the SCPRF);
- 2 group projects (e.g., primate research project based on empirical observations of primates at the zoo).

METHODS OF EVALUATION

- 1 lab exercises;
- 2 quizzes;
- 3 written in-class assignments (e.g. critique journal article)
- 4 mid-term examinations;
- 5 final examination.

METHODS OF INSTRUCTION

- Lecture
- Laboratory
- Studio
- Discussion
- Multimedia
- Tutorial
- Independent Study
- Collaboratory Learning
- Demonstration
- Field Activities (Trips)
- Guest Speakers
- Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	ISBN	Date
Exploring Physical Anthropology: A Lab Manual & Workbook	Required	Morton Publishing Company	3	Print	Walker-Pacheco, Suzanne	978-1617314032	2017

