ANTHRO 1L Course Outline as of Spring 2010

CATALOG INFORMATION

Dept and Nbr: ANTHRO 1L Title: PHYSICAL ANTHRO LAB
Full Title: Physical Anthropology Lab
Last Reviewed: 4/11/2022

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.00	Lecture Scheduled	0	17.5	Lecture Scheduled	0
Minimum	1.00	Lab Scheduled	3.00	6	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00 Total Student Learning Hours: 52.50

Title 5 Category:	AA Degree Applicable
Grading:	Grade or P/NP
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	

Catalog Description:
An introductory laboratory course that uses scientific methodology to explore and experiment with topics from ANTHRO 1 lectures. Major topics to be covered include genetics, human osteology, primate anatomy and social behavior, and the human fossil record. Additional topics may include human variability, medical anthropology, forensic anthropology, dating techniques, environmental challenges to hominids, and human impact on the environment.

Prerequisites/Corequisites:
Course Completion or Current Enrollment in ANTH 1 (or ANTHRO 1)

Recommended Preparation:

Limits on Enrollment:

Schedule of Classes Information:
Description: An introductory laboratory course that uses scientific methodology to explore and experiment with topics from ANTHRO 1 lectures. Major topics to be covered include genetics, human osteology, primate anatomy and social behavior, and the human fossil record. Additional topics may include human variability, medical anthropology, forensic anthropology, dating

techniques, environmental challenges to hominids, and human impact on the environment. (Grade or P/NP)
Prerequisites/Corequisites: Course Completion or Current Enrollment in ANTH 1 (or ANTHRO 1)
Recommended:
Limits on Enrollment:
Transfer Credit: CSU;UC.
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**		Effective:	Inactive:
CSU GE:	**Transfer Area**		Effective:	Inactive:
	B3	Laboratory Activity	Fall 2001	
IGETC:	**Transfer Area**		Effective:	Inactive:
	5C	Fulfills Lab Requirement	Fall 2012	
	5B	Biological Sciences	Fall 2001	Fall 2012
	5C	Fulfills Lab Requirement		

CSU Transfer:	Transferable	Effective:	Fall 2001	Inactive:
UC Transfer:	Transferable	Effective:	Fall 2001	Inactive:

CID:

Certificate/Major Applicable:
Major Applicable Course

COURSE CONTENT

Outcomes and Objectives:
Upon completion of this course, students will be able to:

1. Discuss the structure of human DNA and identify the major principles of genetic inheritance.
2. Identify the major elements of the human skeleton using 3-dimensional materials in a lab setting.
3. Compare and contrast human and non-human primate anatomy and social behavior using 3-dimensional materials in a laboratory setting.
4. Identify key biological and cultural attributes that characterize the early hominids using 3-dimensional materials in a laboratory setting.

Topics and Scope:

This course will cover the following topics:

I. Genetics:
   a. The structure and functions of DNA
   b. Principles of inheritance
   c. Mechanisms of genetic variation and evolutionary change

II. Human Osteology

a. The function of human bone
b. The major sections of the human skeleton
c. Estimation of age and sex from the human skeleton

III. Primatology
a. Primate taxonomy
b. Comparative primate anatomy
c. Primate social behavior

IV. Fossil Record
a. The Australopithecines
b. The emergence of the genus Homo
c. Cultural, behavioral, and biological changes in human evolution

V. Additional topics may include:
1. Human Variability
2. Medical Anthropology
3. Forensic Anthropology
4. Dating Techniques
5. Environmental Challenges to Hominids
6. Human Impacts on the Environment

Assignment:

1. Weekly in-class reading assignments in course workbook (2-5 pages).
2. Weekly problem-solving and/or skills demonstrations with lab models or specimens in class.
3. Weekly in-class attendance and participation in group discussions of data and problem solving assignments.
4. One to four in-class quizzes or exams, which can include multiple choice and true-false questions, short answers, and the identification of three-dimensional specimens.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.	Writing 0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Lab reports	Problem solving 15 - 25%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Assembling three-dimensional models	Skill Demonstrations 15 - 25%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion, Identification of specimens, Short answer	Exams 40 - 50%

Other: Includes any assessment tools that do not logically fit into the above categories.

In-Class Participation and Attendance	Other Category 5 - 15%

Representative Textbooks and Materials:
Exploring Physical Anthropology: A Lab Manual and Workbook. Walker, Suzanne. Morton Publishing Co.: 2008

The Human Evolution Coloring Book, 2nd Edition. Zihlman, Adrienne L. Harper Collins: 2000 (Classic)

Lab Manual and Workbook for Physical Anthropology, 6th Edition. France, Diane. Cengage Learning: 2006

Method and Practice in Biological Anthropology: A Workbook and Laboratory Manual for Introductory Courses. Hens, Samantha. Pearson/Prentice Hall: 2007