Cerro Coso College

Course Outline of Record Report

10/07/2021

ANTHC122 : Biological Anthropology Laboratory

General Information

Author:	• Sarah King • Griffin, Alec • Cornett, Julie
Course Code (CB01) :	ANTHC122
Course Title (CB02) :	Biological Anthropology Laboratory
Department:	Social Science
Proposal Start:	Fall 2018
TOP Code (CB03) :	(2202.00) Anthropology
SAM Code (CB09) :	Non-occupational
Distance Education Approved:	Yes
Course Control Number (CB00) :	CCC000557705
Curriculum Committee Approval Date:	02/09/2018
Board of Trustees Approval Date:	05/03/2018
External Review Approval Date:	Pending
Course Description:	This laboratory course is offered as a supplement to Biological Anthropology and must be taken concurrently with ANTH C121. Laboratory exercises are designed to introduce students to the scientific method, and explore genetics, human variation, human and non-human primate anatomy and behavior, the primate/hominin fossil record, and other resources to investigate processes that affect human evolution.
Submission Type:	Mandatory Revision We are bringing this course through to change the title to be in keeping with discipline standards. We have also reduced the number of SLO's so they are more manageable and less repetitive.
Author:	No value

Faculty Minimum Qualifications

Master Discipline Preferred:	• Anthropology
Alternate Master Discipline Preferred:	No value
Bachelors or Associates Discipline Preferred:	No value
Additional Bachelors or Associates Discipline Preferred:	No value

Course Development Options

Basic Skills Status (CB08)

Course is not a basic skills course.

Course Special Class Status (CB13)

Course is not a special class.

Grade Options

- Letter Grade Methods
- Pass/No Pass

Allow Students to Gain Credit by Exam/Challenge

Allowed Number of Retakes
0

Course Prior To College Level (CB21)
One level below transfer.

Rationale For Credit By Exam/Challenge
No value

Retake Policy Description
Type:|Non-Repeatable Credit

Allow Students To Audit Course

Course Support Course Status (CB26)
No value

Associated Programs

Course is part of a program (CB24)

Associated Program	Award Type	Active
No value	No value	

Transferability & Gen. Ed. Options

Course General Education Status (CB25)

No value

Transferability

Transferable to both UC and CSU

Transferability Status

Approved

CSU General Education Certification	Categories	Status	Approval Date	Comparable Course
Area B.3	Scientific Inquiry & Quantitative Reasoning Laboratory	Approved	No value	No Comparable Course defined.

Intersegmental General Education Transfer Curriculum	Categories	Status	Approval Date	Comparable Course
Area 5.C	Physical & Biological Sciences Laboratory/Activity	Approved	No value	No Comparable Course defined.

Cerro Coso General Education Requirements	Categories	Status	Approval Date	Comparable Course
Area 1.1	Natural Science Life Sciences	Approved	No value	No Comparable Course defined.

Units and Hours

Summary

Minimum Credit Units (CB07)	1
Maximum Credit Units (CB06)	1
Total Course In-Class (Contact) Hours	54
Total Course Out-of-Class Hours	0
Total Student Learning Hours	54
Faculty Load	0

Credit / Non-Credit Options

Course Credit Status (CB04)

Credit - Degree Applicable

Course Non Credit Category (CB22)

Credit Course.

Non-Credit Characteristic

No Value

Course Classification Status (CB11)

Credit Course.

Funding Agency Category (CB23)

Not Applicable.

☐ Cooperative Work Experience Education Status (CB10)

☐ Variable Credit Course

Weekly Student Hours

	In Class	Out of Classs
Lecture Hours	0	0
Laboratory Hours	3	0
Activity Hours	0	0

Course Student Hours

Course Duration (Weeks)	18
Hours per unit divisor	54
Course In-Class (Contact) Hours	
Lecture	0
Laboratory	54
Activity	0
Total	54
Course Out-of-Class Hours	
Lecture	0
Laboratory	0
Activity	0
Total	0

Time Commitment Notes for Students

No value

Faculty Load

Extra Duties: 0

Faculty Load: 0

Units and Hours - Weekly Specialty Hours

Activity Name	Type	In Class	Out of Class
No Value	No Value	No Value	No Value

Pre-requisites, Co-requisites, Anti-requisites and Advisories

Co-Requisite

ANTHC121 - Physical Anthropology

This is a laboratory class only. Since there is no lecture portion, students must take the Anth 121 lecture course in order to understand the theories and methods that will be applied in this laboratory section. Without the background information on concepts, such as mendelian genetics, mechanisms of evolution, natural selection, adaptation, and primate anatomy, they will not be successful in this course.

AND

Co-Requisite

ANTHC121H - Physical Anthropology Honors

This is a laboratory class only. Since there is no lecture portion, students must take the Anth 121H lecture course in order to understand the theories and methods that will be applied in this laboratory section. Without the background information on concepts, such as mendelian genetics, mechanisms of evolution, natural selection, adaptation, and primate anatomy, they will not be successful in this course.

Entrance Skills

Entrance Skills	Description
No value	No value

Limitations on Enrollment

Limitations on Enrollment	Description
No value	No value

Specifications

Methods of Instruction

Methods of Instruction	Presentations (by students)

Rationale	No value

Methods of Instruction	Group Work
Rationale	No value

Methods of Instruction	Instruction through examination or quizzing
Rationale	No value

Methods of Instruction	Laboratory
Rationale	No value

Methods of Instruction	Outside reading
Rationale	No value

Methods of Instruction	Audiovisual
Rationale	No value

Methods of Instruction	Case Study
Rationale	No value

Assignments

Out-of-class assignments include reading chapters from the lab manual prior to class, preparing for quizzes and exams, and completing write up on labs performed in class. For example, students may be asked to compare the measurements of several australopithecine skulls and then explain what the observed differences indicate about environmental adaptation.

Methods of Evaluation	Rationale
Participation	Presentation - students will be expected to present in class on an independent project related to their coursework. Presentations will be graded based on a rubric.
Tests	Quizzes and Exams - these will be given throughout the semester and may consist of multiple choice, true/false, and short answer questions.
Other	Lab reports - Students will be expected to write lab reports each week. Lab reports will be graded based on a rubric.

Equipment

No Value

Textbooks

Author	Title	Publisher	Date	ISBN
	France, D.. (2011) Lab Manual and Workbook for Physical Anthropology, 7th, Cengage (This text is the most up-to-date version and is recommended by C-ID)			

Other Instructional Materials

No Value

Materials Fee

No

Learning Outcomes and Objectives

Course Objectives

Apply the scientific method.

Identify the outcomes of evolutionary processes.

Describe structure and function of DNA and RNA.

Demonstrate how human traits are inherited.

Identify anatomical and behavioral features of non-human primates.

Compare the morphology of primates and early hominins.

Describe the biological and behavioral adaptations of the genus Homo.

Identify defining features of anatomically modern humans.

CSLOs

Demonstrate the key theories and concepts related to the forces of evolution, including mutation, natural selection, genetic drift, and gene flow. Expected SLO Performance: 70.0

Identify modern non-human primate species and describe their skeletal morphology and social behavior. Expected SLO Performance: 70.0

Identify the main hominin species by their skeletal morphology and describe the key adaptations in human evolution. Expected SLO Performance: 70.0

Analyze the influence of the environment on humans including the resulting biological and cultural differences. Expected SLO Performance: 70.0

Outline

Course Outline

No value

Lab Outline

This course will consist of hands-on laboratory activities that cover the following concepts:

I.Nature of scientific inquiry and the scientific method
- a.Application of scientific methods

II.Molecular; Mendelian; and population genetics
- a.Investigation of cell biology
- b.Examination of genetic traits

III.Mechanisms of evolution
- a.Mutation
- b.Natural selection
- c.Gene flow
- d.Genetic drift

IV.Comparative primate taxonomy; anatomy and behavior
- a.Mammals and primates
- b.Lemurs; Lorises; and Tarsiers
- c.New World Monkeys
- d.Old World Monkeys
- e.Apes

V.Investigation of human osteology; forensic and anthropometric methods
- a.Cranial bones and landmarks
- b.Post-cranial bones and landmarks

VI.Biocultural adaptations and modern human variation
- a.Age and sex assessment
- b.Race
- c.Pathology
- d.Environmental adaptations

VII.The nature of the fossil record including dating techniques

VIII.Fossil and genetic evidence of human evolution
- a.Australopithecine anatomy
- b.Early Homo anatomy
- c.Archaic Homo sapiens
- d.Anatomically modern humans

Delivery Methods and Distance Education

Delivery Method: Please list all that apply -Face to face -Online (purely online no face-to-face contact) -Online with some required face-to-face meetings (“Hybrid”) -Online course with on ground testing -iTV – Interactive video = Face to face course with significant required activities in a distance modality -Other

Face 2 Face

Rigor Statement: Assignments and evaluations should be of the same rigor as those used in the on-ground course. If they are not the same as those noted in the COR on the Methods of Evaluation and out-of-class assignments pages, indicate what the differences are and why they are being used. For instance, if labs, field trips, or site visits are required in the face to face section of this course, how will these requirements be met with the same rigor in the Distance Education section?

No Value

Effective Student-Instructor Contact: Good practice requires both asynchronous and synchronous contact for effective contact. List the methods expected of all instructors teaching the course. -Learning Management System -Discussion Forums -Moodle Message -Other Contact -Chat/Instant Messaging -E-mail -Face-to-face meeting(s) -Newsgroup/Discussion Board -Proctored Exam -Telephone -iTV - Interactive Video -Other (specify)

No Value

Software and Equipment: What additional software or hardware, if any, is required for this course purely because of its delivery mode? How is technical support to be provided?

No Value

Accessibility: Section 508 of the Rehabilitation Act requires access to the Federal government's electronic and information technology. The law covers all types of electronic and information technology in the Federal sector and is not limited to assistive technologies used by people with disabilities. It applies to all Federal agencies when they develop, procure, maintain, or use such technology. Federal agencies must ensure that this technology is accessible to employees and the public to the extent it does not pose an "undue burden". I am using -iTV—Interactive Video only -Learning management system -Publisher course with learning management system interface.

itv
LMS
publisher

Class Size: Good practice is that section size should be no greater in distance ed modes than in regular face-to-face versions of the course. Will the recommended section size be lower than in on-ground sections? If so, explain why.

No Value