ANTH 011: BIOLOGICAL ANTHROPOLOGY

Proposer:

Name:	Email:
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Effective Term:
Fall 2023

Credit Status:
Credit - Degree Applicable

Subject:
ANTH - Anthropology

Course Number:
011

Catalog Title
Biological Anthropology

Catalog Description
Want to learn about your origins, primates, and forensic anthropology in one class? Students will encounter the concepts, methods of inquiry, and scientific explanations of the evolution of humans and non-human primates. Course topics include: genetics, evolutionary theory, human variation and adaptation, comparative anatomy and behavior of non-human primates, as well as fossil ancestry. The philosophy of science and the scientific method are the foundations of this course.

Advisory on Recommended Preparation:
ENGL 251 or ENGL 261 or equivalent college course with a minimum grade of C or eligibility for ENGL 001 as determined by COS Placement Procedures

Method of Instruction:
Distance Education
Lecture and/or Discussion

Course Units/Hours:

Course Units Minimum:
3

Lecture Hours Minimum (week)
3

Lab Hours Minimum (week)
0

Activity Hours Minimum (week)
0

Total Contact Hours Minimum (semester)
52.5

Total Outside Hours Minimum (semester)
105

Total Student Learning Minimum Hours (semester)
157.5

Repeatability:
No

Open Entry/Exit:
No

Field Trips:
Not Required

Grade Mode:
Standard Letter

TOP Code:
220200 - Anthropology

SAM Code:
E - Non-Occupational

Course Content

Methods of Assessment:
Essay quizzes or exams
Mulitple choice tests
Oral presentations
Project
Short answer quizzes or exams
Skill demonstrations
Written essays or extended papers

Course Topics:

	Course Topics
1	Anthropological perspective
2	Nature of scientific inquiry and the scientific method
3	Biocultural adaptations and modern human variation
4	Fossil and genetic evidence of human evolution
5	Forensic anthropology
6	The nature of the fossil record including dating techniques
7	Comparative primate taxonomy, anatomy and behavior
8	Mechanisms of evolution
9	Molecular, Mendelian and population genetics
10	History and development of biological evolutionary thought

Course Objectives:

	Course Objectives
1	Explore scientific history as it relates to the theory of evolution through natural selection.
2	Identify the biological and cultural factors responsible for human variation.
3	Recognize the major groups of hominin fossils and describe alternate phylogenies for human evolution.
4	Summarize methods used in interpreting the fossil record, including dating techniques.
5	Demonstrate an understanding of classification, morphology and behavior of living primates.
6	Define the scope of anthropology and discuss the role of biological anthropology within the discipline.
7	Identify the main contributors to the development of evolutionary theory, explain the basic principles of Mendelian, molecular and population genetics, and evaluate how the forces of evolution produce genetic and phenotypic change over time.
8	Describe the scientific process as a methodology for understanding the natural world.

9	Understand the basic techniques and analyses of forensic anthropology including the realities and challenges of this subfield.
10	Evaluate how the forces of evolution produce genetic and phenotypic change over time.

Course Outcomes:

	Course Outcomes
1	Students will be able to distinguish between scientific information and other sources of knowledge after completing this course.
2	Students will understand the relationship of humans to our environments, fossil ancestry, and living primates.

Assignments:

Assignment Type:	Details
Reading	Chapters from the textbook, assigned weekly. Current scholarly research articles. Credible Internet resources. Science/popular news reports.
Writing	Write a report after the analysis of data gathered from a record of Mendelian traits. Provide short answer essays to prompts such as: "What is the significance of the African continent to Homo sapiens?" Offer educated opinions after reflecting on the course content such as the relatedness of Neanderthals and modern humans. Identify the observed differences (visually or via touch) between two skulls.
Homework	Generate chapter summaries or use adaptive learning tools of assigned readings. Written/oral responses to scholarly articles, credible Internet sources, and/or science/popular news reports. Internet research on topics such as: "Having primates as pets". Assignments related to a project on Mendelian genetics. Develop a pedigree chart of your family and connect your family to our larger human family.

Textbooks or other support materials

Resource Type:	Details
Books	Larsen, Clark. Essentials of Physical Anthropology, 5th edition, WW Norton, New York, 2022.
Web/Other	Shook, Beth; Katie Nelson, Kelsie Aguilera, and Lara Braff. American Anthropological Association, Arlington, VA, 2019.

Equity Review:

Yes

Transferable to CSU

Yes - Approved

CSU General Education

CSU GE B2: Life Science
Transferable to CSU

Transferable to UC

Yes - Approved

UC/IGETC General Education

IGETC 5B: Biological Sciences
Transferable to UC

COS General Education

COS GE B: Natural Sciences

Other Degree Attributes

Degree Applicable

Not a Basic Skills Course

Distance Learning Addendum
DLA - ANTH11.doc

Banner Title:
Biological Anthropology

Curriculum Committee Approval Date:
09/23/2022

Academic Senate Approval Date:
09/28/2022

District Governing Board Approval Date:
10/10/2022

Course Control Number:
CCC000290623

C-ID:
ANTH110