

ANTHR110 : Physical Anthropology (no lab)

General Information

Author:	<ul style="list-style-type: none">Elizabeth KronbeckStonis, MichelleFonarow, Wendy
Course Code (CB01) :	ANTHR110
Course Title (CB02) :	Physical Anthropology (no lab)
Department:	ANTHR
Proposal Start:	Fall 2024
TOP Code (CB03) :	(2202.00) Anthropology
CIP Code:	(45.0201) Anthropology, General.
SAM Code (CB09) :	Non-Occupational
Distance Education Approved:	No
Will this course be taught asynchronously?:	No
Course Control Number (CB00) :	CCC000646443
Curriculum Committee Approval Date:	05/22/2024
Board of Trustees Approval Date:	07/16/2024
Last Cyclical Review Date:	05/22/2024
Course Description and Course Note:	ANTHR 110 introduces the concepts, methods of inquiry, and scientific explanations for biological evolution and its application to the human species. Issues and topics will include genetics, evolutionary theory, human variation, and biocultural adaptations, comparative primate anatomy and behavior, forensic anthropology, human osteology, and the fossil evidence for human evolution. Note: No credit will be awarded if ANTHR 101 has been completed.
Justification:	New Course
Academic Career:	<ul style="list-style-type: none">Credit
Author:	

Academic Senate Discipline

Primary Discipline:	<ul style="list-style-type: none">Anthropology
Alternate Discipline:	No value
Alternate Discipline:	No value

Course Development

Basic Skill Status (CB08)

Course is not a basic skills course.

Allow Students to Gain Credit by Exam/Challenge

Course Special Class Status (CB13)

Course is not a special class.

Pre-Collegiate Level (CB21)

Not applicable.

Grading Basis

- Grade with Pass / No-Pass Option

Course Support Course Status (CB26)

Course is not a support course

Transferability & Gen. Ed. Options

General Education Status (CB25)

Not Applicable

Transferability

Transferable to both UC and CSU

Transferability Status

Approved

C-ID	Area	Status	Approval Date	Comparable Course
ANTH	Anthropology	Approved	02/18/2025	ANTH 110 - Introduction to Biological Anthropology

Cal-GETC	Area	Status	Approval Date	Comparable Course
Area 5B: Biological Science	Biological Science	Pending	No value	No Comparable Course defined.

Units and Hours

Summary

Minimum Credit Units (CB07)	3
Maximum Credit Units (CB06)	3
Total Course In-Class (Contact) Hours	54
Total Course Out-of-Class Hours	108
Total Student Learning Hours	162

Credit / Non-Credit Options

Course Type (CB04)

Credit - Degree Applicable

Noncredit Course Category (CB22)

Credit Course.

Noncredit Special Characteristics

No Value

Course Classification Code (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 Class
Lecture Hours	3	6
Laboratory Hours	0	0
Studio Hours	0	0

Course Student Hours

Course Duration (Weeks)	18
Hours per unit divisor	54
Course In-Class (Contact) Hours	
Lecture	54
Laboratory	0
Studio	0
Total	54
Course Out-of-Class Hours	
Lecture	108
Laboratory	0
Studio	0
Total	108

Time Commitment Notes for Students

No value

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

Advisory

ENGL101 - Introduction to College Reading and Composition

Objectives

- Read, analyze, and evaluate a variety of primarily non-fiction readings for content, context, and rhetorical merit with consideration of tone, audience, and purpose;
- Apply a variety of rhetorical strategies in writing unified, well-organized essays directed by a well-reasoned thesis statement with persuasive support;
- Develop varied and flexible strategies for generating, drafting, and revising essays;
- Analyze stylistic choices in their own writing and the writing of others;
- Write timed, in-class essays exhibiting acceptable college-level control of mechanics, organization, development, and coherence;
- Integrate the ideas of others through paraphrasing, summarizing, and quoting without plagiarism;
- Find, evaluate, analyze, and interpret primary and secondary sources, incorporating them into written essays using appropriate documentation format;
- Proofread and edit essays for presentation so they exhibit no disruptive errors in English grammar, usage, or punctuation.

OR

Advisory

ESL151 - Reading And Composition V

Objectives

- Read and critically analyze various academic readings;

- Summarize readings;
- Organize fully-developed essays in both expository and argumentative modes;
- Compose a 500 to 550-word essay that summarizes and cites appropriately a reading passage; includes a clear thesis statement; uses evidence to support the thesis; shows clear organization into an introduction, body, and conclusion;
- Revise writing to eliminate errors in syntax, and grammatical constructions;
- Employ basic library research techniques;
- Compose one research paper (1,000 words) or two short research papers (500-700 words each) with citations.

Entry Standards

Entry Standards

Course Limitations

Cross Listed or Equivalent Course

Specifications

Methods of Instruction

Methods of Instruction

Lecture

Methods of Instruction

Discussion

Methods of Instruction

Multimedia

Methods of Instruction

Independent Study

Methods of Instruction

Collaborative Learning

Methods of Instruction

Demonstrations

Methods of Instruction

Field Activities (Trips)

Methods of Instruction

Guest Speakers

Methods of Instruction

Presentations

Out of Class Assignments

- Written assignments (e.g., short paper about cell biology)
- Out-of-class visits and field trips (e.g., attending primate lectures at the SCPRF)
- Group projects (e.g., a primate research project based on empirical observations of primates at the zoo)

Methods of Evaluation**Rationale**

Exam/Quiz/Test

Quiz

Activity (answering journal prompt, group activity)

Essays and other in-class written assignments

Exam/Quiz/Test

Midterm examination

Exam/Quiz/Test

Cumulative final examination

Textbook Rationale

No Value

Textbooks**Author****Title****Publisher****Date****ISBN**

Larson, Clark

Essentials of Biological Anthropology

W. W. Norton & Company

2021

9781260180329

Other Instructional Materials (i.e. OER, handouts)**Description**

Explorations: An Open Invitation to Biological Anthropology

Author

Shook, Beth et al.

Citation

978-1-931303-82-8

Online Resource(s)<https://explorations.americananthro.org/>**Materials Fee**

No value

Learning Outcomes and Objectives**Course Objectives**

Describe the scientific process as a methodology for understanding the natural world.

Define the scope of anthropology and discuss the role of biological anthropology within the discipline.

Identify the main contributors to the development of evolutionary theory.

Explain the basic principles of Mendelian, molecular and population genetics.

Evaluate how the forces of evolution produce genetic and phenotypic change over time, including mutational errors and natural selection.

Demonstrate an understanding of classification; morphology and behavior of living primates; and primate identification.

Summarize methods used in interpreting the fossil record, including dating techniques and biasing agents.

Recognize the major groups of hominin fossils and describe alternate phylogenies for human evolution.

Identify the biological and cultural factors responsible for human variation.

Explain the ways human variation has been examined and critique both how the scientific and social communities have used data.

SLOs

Summarize the scope of physical anthropology, including evolution, genetics, and the principles of cell biology.

Expected Outcome Performance: 70.0

Discuss hominid and non-human primate anatomy and behavior and make inferences about behavior from morphological characteristics of skeletons.

Expected Outcome Performance: 70.0

Analyze the record of fossil forms leading to the characteristic structure of modern Homo sapiens, identifying human variation at the individual and group levels.

Expected Outcome Performance: 70.0

Course Content

Lecture Content

Physical Anthropology (4 hours)

- Definition of anthropology
- Sub-disciplines of anthropology, with an emphasis on physical anthropology
- Scientific method, natural selection, and basic evolution
 - What the scientific method is and how it works
 - The nature and function of natural selection
 - Evolution, evolutionary theory, forerunners to evolutionary thought

Genetics and Genetic Mechanisms of Evolution (6 hours)

- Cell biology/eukaryotic cell and organelles
- DNA molecule/DNA synthesis/protein synthesis
- Cell division: mitosis and meiosis
- Chromosomal types
- Structural and regulatory genes
- Genotypes and phenotypes
- Mechanisms of mendelian genetics

Genetic stability and variability Genetics of Populations (6 hours)

- Population genetics/concepts of gene frequency and gene pool
- The hardy-weinberg theorem
- Microevolutionary forces
- Mutation and genetic recombination, natural selection, gene flow, random genetic drift
- Balanced polymorphism
- Macroevolution: modes and tempos of speciation

Order Primates (7 hours)

- Taxonomy and classification of humans and non-human primates
- Five categories of primates
- Non-human primate distribution/habitats/locomotion/dental formulas, different teeth and functions
- Ancestral and derived traits
- Prosimians, old world monkeys and new world monkeys
- Basic skeletal anatomy and taxonomy
- Sexual dimorphism

Our Closest Living Relatives: The Apes (9 hours)

- The lesser apes: gibbons and siamangs
- The great apes: orangutans, gorillas, chimpanzees and bonobos
- Conservation status, methods and concerns Significance of primate behavior studies and early hominid evolution
- Primate behavior and adaptations: mating, reproductive, communication strategies
- Conduct and biases of behavior studies
- Observations of living primates (fieldwork)
- Interpretations of living primate data

Early Hominid Evolution (6 hours)

- Cenozoic era and adaptive radiation of non-human primates and hominids
- Bipedalism and changes to the skeleton
- Fossilization and dating techniques
- Early hominids and australopithecines
- The origin of the genus Homo
- Archaeological methods and dating techniques

Adaptive Radiation of the Genus Homo (7 hours)

- Genus Homo and species
- Significance archaeological sites, skeletal remains and cultural artifacts
- Behavioral firsts and paleolithic, mesolithic and neolithic tool industries
- Migrations of the genus homo
- The neanderthals
- The origin of Homo sapiens
- Dental morphology and diet

Human Variation and Biological Adaptations (6 hours)

- The concept of race: past and present perspectives
- Analyzing human variation
- Adaptive significance of human phenotypes
- Body size, pigmentation, resistance to disease, and other adaptive mechanisms
- Biological and cultural strategies to heat, cold and altitude stress

Evolution: Today and Tomorrow (3 hours)

- The forces of change

Total Hours: 54

Additional Information

Is this course proposed for GCC Major or General Education Graduation requirement? If yes, indicate which requirement in the two areas provided below.

Yes

GCC Major Requirements

No Value

GCC General Education Graduation Requirements

Natural Sciences

Repeatability

Not Repeatable

Justification (if repeatable was chosen above)

No Value

Resources

Did you contact your departmental library liaison?

No

If yes, who is your departmental library liaison?

No Value

Did you contact the DEIA liaison?

No

Were there any DEIA changes made to this outline?

No

If yes, in what areas were these changes made:

No Value

Will any additional resources be needed for this course? (Click all that apply)

- No

If additional resources are needed, add a brief description and cost in the box provided.

No Value