Course Outline

COURSE: ANTH 1L  DIVISION: 10  ALSO LISTED AS:

TERM EFFECTIVE: Fall 2020  CURRICULUM APPROVAL DATE: 06/10/2020

SHORT TITLE: PHYS ANTH LAB
LONG TITLE: Physical Anthropology Lab

<table>
<thead>
<tr>
<th>Units</th>
<th>Number of Weeks</th>
<th>Type</th>
<th>Contact Hours/Week</th>
<th>Total Contact Hours</th>
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<tr>
<td>1</td>
<td>18</td>
<td>Lecture:</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lab:</td>
<td>3</td>
<td>54</td>
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<td>Other:</td>
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<tr>
<td></td>
<td></td>
<td>Total:</td>
<td>3</td>
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COURSE DESCRIPTION:

This laboratory course is offered as a supplement to Introduction to Physical Anthropology either taken concurrently or in a subsequent term. Laboratory exercises are designed to introduce students to the scientific method and hands-on exploration of topics in physical anthropology: genetics; human osteology; comparative and functional skeletal anatomy; primate behavior; human fossil record; modern human variation; and other resources to investigate processes related to human evolution. PREREQUISITE or COREQUISITE: ANTH 1, Introduction to Physical Anthropology, may be taken concurrently.

PREREQUISITES:
- Completion of ANTH 1, as UG, with a grade of C or better., Concurrent OK
- OR
- Completion of ANTH 1, as UG, with a grade of or better., Concurrent OK

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES
- L - Standard Letter Grade

REPEATABILITY: N - Course may not be repeated
SCHEDULE TYPES:
- 04 - Laboratory/Studio/Activity
- 047 - Laboratory - LEH 0.7
- 05 - Hybrid
- 71 - Dist. Ed Internet Simultaneous
- 73 - Dist. Ed Internet Delayed LAB
- 737 - Dist. Ed Internet LAB-LEH 0.7

STUDENT LEARNING OUTCOMES:
By the end of this course, a student should:
1. Apply the scientific method.

2. Identify the outcomes of evolutionary processes.

3. Demonstrate how human traits are inherited.

4. Identify anatomical and behavioral features of nonhuman primates.

5. Compare the morphology of primates and early hominins.

6. Describe the biological and behavioral adaptations of the genus Homo.

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS
Curriculum Approval Date: 06/10/2020

3 hours
Content: The Scientific Method
Student Performance Objectives (SPO): Investigating and demonstrating knowledge of the scientific method through lab exercises, observations of laboratory data, analysis of data, formulation of hypotheses to account for the data, testing hypotheses against independently acquired data; Distinguish scientific methodology from other methods of evaluation or thinking.

3 hours
Content: Darwin's Natural Selection and the Origin of Species
Student Performance Objectives (SPO): Investigating and demonstrating knowledge of examples from nature; Investigating and demonstrating knowledge of cellular transformation through lab exercises and lab reports.

4 hours
Content: Human and Population Genetics
Student Performance Objectives (SPO): Investigating and demonstrating knowledge of the double helix, inheritance, and phenotypic traits through lab exercises and lab reports.

3 hours
Content: Biological Classification
Student Performance Objectives (SPO): Investigating and demonstrating knowledge of taxonomy through lab exercises and lab reports; Applying knowledge to the classification of living primates.

3 hours
Content: Primate Osteology
Student Performance Objectives (SPO): Investigating and demonstrating knowledge of nonhuman primate osteology through lab training with primate skeletons.
3 hours
Content: Human Osteology
Student Performance Objectives (SPO): Investigating and demonstrating knowledge of human osteology through lab training with human skeletons.

3 hours
Content: Primate Behavior
Student Performance Objectives (SPO): Observing and demonstrating knowledge of the behavior of living primates through viewings of videos and websites.

3 hours
Content: Early Primates and Hominids
Student Performance Objectives (SPO): Investigating and demonstrating knowledge of early primates from the Paleocene through the Miocene; Lab exercises and reports based on fossil collection study; Evaluate and debate social, cultural, environmental, or other influences on hominid adaptation and survival over time.

6 hours
Content: Human Behavior in Comparative Perspective
Student Performance Objectives (SPO): Investigating and demonstrating knowledge of comparisons between human and nonhuman primate behavior; Lab exercises and reports based on fossil collection study and observation of living primates through viewings of videos and websites.

3 hours
Content: Early members of Genus Homo
Student Performance Objectives (SPO): Investigating and demonstrating knowledge of fossil hominids; Lab training in anthropometric studies; Lab exercises and reports based on fossil collection study.

3 hours
Content: Evolution of Homo sapiens
Student Performance Objectives (SPO): Investigating and demonstrating knowledge of the evolution of Homo sapiens through lab exercises and lab reports.

3 hours
Content: Biology of Homo sapiens
Student Performance Objectives (SPO): Investigating and demonstrating knowledge of the biology of Homo sapiens through lab exercises and lab reports.

6 hours
Content: Analysis of Modern Human Variation
Student Performance Objectives (SPO): Investigating and demonstrating knowledge of modern human variation; Lab training in Craniometric and Osteometric studies; Identification of postcranial skeletal bones; Lab exercises and reports based on fossil collection study.

6 hours
Content: Human Skeletal Variation and Forensic Anthropology Student Performance Objectives (SPO): Investigating and demonstrating knowledge of human skeletal variation and forensic anthropological techniques: fingerprints, blood analysis, gunshot wounds, trephination, antemortem, perimortem, and postmortem analysis; Lab exercises and lab reports.

2 hours
Final

METHODS OF INSTRUCTION:
Utilize laboratory activities related to course content in the lecture class. Laboratory activities include but are not limited to: 1. Application of scientific methods 2. Investigation of cell biology 3. Examination of genetic traits 4. Exploration of evolutionary mechanisms 5. Investigation of human osteology, forensic and anthropometric methods 6. Comparative behavioral and anatomical studies of non-human primates 7. Comparative anatomy of fossil species 8. Investigation of trends in hominin evolution
METHODS OF EVALUATION:
Category 1 - The types of writing assignments required:
Writing assignments
Percent of total grade: 40.00 %
Lab reports, exams
Objective examinations
Percent of total grade: 30.00 %
Practicums, exams
Problem-solving assignments
Percent of total grade: 15.00 %
Lab reports, quizzes
Skill demonstrations
Percent of total grade: 15.00 %
Practicums, exams

REPRESENTATIVE TEXTBOOKS:
ISBN: 1305259041
Reading Level of Text, Grade: Reading level of text, Grade: 14 Verified by: Debbie Klein
RECOMMENDED TEXT AND MATERIALS
ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:
  GAV B3, effective 201430

CSU GE:
  CSU B3, effective 201430

IGETC:
  IGETC 5C, effective 201430

CSU TRANSFER:
  Transferable CSU, effective 201430

UC TRANSFER:
  Transferable UC, effective 201430

SUPPLEMENTAL DATA:

Basic Skills: N
Classification: Y
Noncredit Category: Y
Cooperative Education:
Program Status: 1 Program Applicable
Special Class Status: N
CAN:
CAN Sequence:
CSU Crosswalk Course Department: ANTH
CSU Crosswalk Course Number: 1L
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: E
Maximum Hours:
Minimum Hours:
Course Control Number: CCC000550621
Sports/Physical Education Course: N
Taxonomy of Program: 220200