Course Information

Division: Social Sciences
Course Number: ANT 101
Title: Introduction to Physical Anthropology
Credits: 3
Developed by: L.M. Blan
Lecture/Lab Ratio: 3 Lecture/0 Lab
Transfer Status:

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<th>ASU</th>
<th>NAU</th>
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<tr>
<td>ASM Dept Elective</td>
<td>ANT 101 also satisfies: Science/Applied Science [SAS]</td>
<td>ANTH265</td>
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Activity Course: No
CIP Code: 45.0201
Assessment Mode: Pre/Post Test (50 Questions/50 Points)
Semester Taught: Fall
GE Category: Social Sciences
Separate Lab: No
Awareness Course: No
Intensive Writing Course: No

Prerequisites:
ENG 091 with a grade of “C” or higher or reading placement test score as established by District policy

Educational Value:
Transfer students, Nursing students, Biology majors, or any student seeking greater knowledge of human evolution and variation

Description:
Survey of physical anthropology and archaeology, including primate studies, origin and antiquity of humans, fossil humans, racial theories, heredity and population genetics, and prehistoric archaeology.

Supplies:
None
Competencies and Performance Standards

1. Describe the nature of physical anthropology as a scientific discipline and its origins in the work of Charles Darwin

Learning objectives
What you will learn as you master the competency:

a. Summarize the nature of anthropology
b. Summarize the nature of physical anthropology
c. Characterize the scientific approach
d. Define Darwin's theory of evolution
e. Specify Darwin's evidence for evolution
f. Exemplify natural selection in action

Performance Standards
Competence will be demonstrated:

- in objective exams
- in completed study questions
- in participation in classroom discussion

Criteria - Performance will be satisfactory when:

- learner can summarize the nature of anthropology
- learner can summarize the nature of physical anthropology
- learner can characterize the nature of the scientific approach
- learner can define Darwin's theory of evolution
- learner can provide examples of natural selection in action

2. Characterize the manner in which cell structure and replication relate to inheritance and evolution

Learning objectives
What you will learn as you master the competency:

a. Describe the structure of the cell and the manner in which cell division affects chromosome distribution
b. Characterize the structure and workings of the DNA molecule in cell replication
c. Specify the principles of inheritance as discovered by Gregor Mendel
d. Describe the principles of segregation and independent assortment
e. Summarize the modern synthetic theory of evolution and how it works on variation through natural selection

Performance Standards
Competence will be demonstrated:

- in objective exams
- in completed study questions
- in participation in classroom discussion

Criteria - Performance will be satisfactory when:

- learner can describe the structure of the cell and the manner in which cell division affects chromosome distribution
- learner can characterize the structure and workings of the DNA molecule in cell replication
replication
- learner can specify the principles of inheritance as discovered by Gregor Mendel
- learner can describe the principles of segregation and independent assortment
- learner can summarize the modern synthetic theory of evolution and how it works on variation

3. **Explain human variation in terms of population genetics and human adaptability**

**Learning objectives**

*What you will learn as you master the competency:*

- a. Characterize human population genetics and the forces operating on the genetic composition of populations
- b. Describe some representative human polymorphisms and their anthropological applications
- c. Assess racial classification as a scientific and a social concept
- d. Specify some of the conditions to which humans respond adaptively and implications for modern life

**Performance Standards**

*Competence will be demonstrated:*

- in objective exams
- in completed study questions
- in participation in classroom discussions

*Criteria - Performance will be satisfactory when:*

- learner can characterize human population genetics and the forces operating on the genetic composition of populations
- learner can describe some representative human polymorphisms and their anthropological applications
- learner can assess racial classification as a scientific concept and as a social concept
- learner can specify some of the conditions to which humans respond adaptively and implications for modern life

4. **Summarize mammalian and primate evolution and relate primate behavior to that of the hominids**

**Learning objectives**

*What you will learn as you master the competency:*

- a. Describe the place of primate and human evolution in the broader context of mammalian evolution
- b. Characterize primate evolutionary trends and the grades of primate evolution
- c. Describe the living hominoids and their prime characteristics
- d. Relate characteristic aspects of primate behavior as exhibited in social groups
- e. Discuss primate cognition and its evolutionary implications for the emergence of human thought and communication

**Performance Standards**

*Competence will be demonstrated:*

- in objective exams
5. Specify the sequence of kinds of hominids that are ancestral to modern man and characterize associated cultural developments

Learning objectives

What you will learn as you master the competency:

a. Discuss techniques and localities most important in the study of early hominids
b. Characterize the australopithecines and early Homo in Africa
c. Describe Homo erectus and associated culture as erectus forms spread across the Old World
d. Describe archaic and modern forms of Homo sapiens in terms of their distribution in time and space and associated cultures

Performance Standards

Competence will be demonstrated:

in objective exams
in completed study questions
in participation in classroom discussions

Criteria - Performance will be satisfactory when:

- learner can discuss techniques and localities most important in the study of early hominids
- learner can characterize the australopithecines and early Homo in Africa
- learner can describe Homo erectus and the spread of erectus and associated culture as erectus forms spread across the Old World
- learner can describe archaic and modern forms of Homo sapiens in terms of their distribution in time and space and associated cultures

Types of Instruction

Classroom Presentation
Video presentations
Slide presentations
Grading Information

Grading Rationale
Exams 65%
Assignments 25%
Post Test/Final 10%

Grading Scale
A 90-100%
B 80-89.5%
C 70-79.5%
D 60-69.5%
F below 60%