

COURSE TITLE AND NUMBER: Introduction to Biological Anthropology ANP 161

North Central **Michigan College**

NCMC MASTER COURSE SYLLABUS

Last Date Revised: 11/15/04

DIVISION/AREA: AnthropologyDEPARTMENT: Liberal Arts

AREA DEAN: Timothy Dykstra, Ph.D.ORIGINATOR: Finlayson

Division Director: Mark Gaylord, Ph.D.

TOTAL HOURS OF INSTRUCTION: 3 Lecture: 3 Lab: 0 Total Contact Hours: 52.8

COURSE NUMBER: Anthropology 161CREDIT HOURS: 3

COURSE TITLE: Introduction to Biological Anthropology

PREREQUISITE(S)/COREQUISITE(S)/ADVISORY:

A basic knowledge of biology is needed for success in this course

CATALOG DESCRIPTION:

This introduction to biological anthropology examines the genetic, adaptive, anatomic, primate, and evolutionary background to humankind's emergence. Topics include human genetics, evolution, primate studies, human osteology, and human diversity. A basic understanding of biology is needed for success in this course.

GENERAL EDUCATION OUTCOMES OR OCCUPATIONAL PROGRAM OUTCOMES

The purpose of General Education requirements in our degree programs is to enable students to develop their ability to reason, to communicate effectively in both oral and written form, and to acquire sufficient knowledge of their heritage to participate fully in society and the world.

COURSE OBJECTIVES & OUTCOMES:

1. To know and comprehend the basic components of Evolutionary Theory and Human Heredity
 - Comprehend Mendelian Genetics
 - Discuss Molecular genetics and its relationship to evolutionary theory
 - Discuss Population genetics and apply this to evolutionary theory
 - Discuss the main points of evolutionary theory and relate this to human heredity
2. To know and comprehend the basic components of skeletal forms, function, and forensic anthropology
 - Explain Skeletal Growth and Development
 - Assess skull and dentition features
 - Identify the parts of the Axial skeleton and assess the functions
 - Identify the parts of the Appendicular skeleton and assess the functions

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- Assess skeletal aging and sexing features
- Describe the components of forensic anthropology

3. To know and comprehend the basic components of Primate and Hominid Evolution

- Discuss primate taxonomy and trends
- Discuss the components of paleoanthropology
- Discuss non-human primate origins and evolution
- Identify the features of australopithecines and list the features of the two main groups of Australopithecines
- Discuss the origins of the genus Homo
- Identify the features of Homo Erectus and describe where they belong on the evolutionary scale
- Identify the features of Neanderthals and describe where they belong on the evolutionary scale
- Identify the features of Anatomically Modern Humans

METHODS OF INSTRUCTION:

Lecture, discussion, labs

METHODS OF EVALUATION:

Exams, Labs, and Research paper

REQUIRED TEXTS: (Representative List)

Turnbaugh, W., R. Jurmain, H. Nelson, and L. Kilgore

2004 Understanding Physical Anthropology and Archaeology. Eighth Edition. Wadsworth Publishing Company.

Optional supplementary Materials:

Reasonable accommodations may be provided by students with documented physical, sensory, cognitive, systemic, and/or psychiatric disabilities. Please contact the Education Opportunity Program (EOP) at 231-348-6682 to arrange for services for this course.

TIME ALLOWANCE AND SEQUENCE OF INSTRUCTION:

Week 1: Introduction: Mechanics/Expectations

Week 2: Background to Biological Anthropology

Week 3: Mendelian Genetics

Week 4: Molecular Genetics

Week 5: Population Genetics

Week 6: Evolutionary Theory

Week 7: Introduction to Human Osteology

Week 8: Skeletal Growth and Development, Skull and Dentition, and Axial Skeleton

Week 9: Appendicular Skeleton, Skeletal Aging

Week 10: Forensic Anthropology

Week 11: Primate Taxonomy and Trends

Week 12: Introduction to Paleoanthropology

Week 13: Non-Human Primate Origins and Evolution

Week 14: The Australopithecines

Week 15: Origins of the genus Homo, Homo Erectus

Week 16: Neanderthals and Beyond

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APPROVED FOR ADOPTION BY THE CRD/AP COMMITTEE ON: 11/15/04