

ARCHAEOLOGY 3600
Archaeology and Human Evolution
Fall 2018

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Lecture: Tu Th 3:05-4:20 pm

Room: C756

Course Description:

This course will introduce students to the critical issues involved in understanding the evolution of the human species, both biologically and culturally. We will explore the biological and archaeological evidence that scientists draw upon to interpret the evolutionary path of humans. Emphasis will be placed on the archaeological and palaeoanthropological study of the hominid line from the early primates to our present species. Through lectures, videos, assignments, and class discussions we will cover the major topics of human evolution, including evolutionary theory, excavation and dating methods, ancient and extant primates, and hominid evolution.

Required Reading:

The text *The Complete World of Human Evolution* by Chris Stinger and Peter Andrews (2005) will be the main text used for this class; however, supplemental information will come from other sources, including the text *The Human Career* by Richard Klein (Second Edition, 2009). Figures from Klein's book will be uploaded to Moodle. Copies of *The Human Career* are on reserve in the library. You are encouraged to read the chapters and sections connected with the lectures. Class attendance is strongly suggested, as all lectures will include additional information.

Course Requirements and Grading:

You will be evaluated on the basis of two lab-based assignments and three exams. Late assignments **will not be** accepted. No make up exams will be given except in the case of serious illness as verified by a doctor's note.

Assignments:

The **two lab-based assignments** are worth 20% each. They involve the hands-on analysis of skeletal remains, both real and casts. You will have class time to work on these assignments; however, you will likely need additional time in the archaeology classroom to complete them. It is imperative that you attend class and keep up with the readings so that you are well-prepared for the assignments. Each assignment is due at the **beginning** of class on the date it is due. No late assignments will be accepted. You should work together on these lab assignments in order to discuss your interpretations **but** you must hand in your **own** assignment, written in your own words. Plagiarism is a serious academic offence and will be handled accordingly. All assignment must be properly formatted following the instructions provided for each.

Examinations:

There are three exams worth 20% each. A number of question types are used, such as multiple-choice, matching, fill in the blank, and short and long answer, to assess your knowledge of the course material. The final exam will also include an essay question relating to one of the articles uploaded to Moodle.

Important Dates:

1st Assignment:	20%	Due October 23 - at the start of class
2nd Assignment:	20%	Due November 27 - at the start of class
1st Examination:	20%	September 27 - in class
2nd Examination:	20%	October 25 - in class
3rd Examination:	20%	December 4 - in class

Grading Scheme:

A+ 90-100	B+ 77-79	C+ 67-69	D+ 57-59
A 85-89	B 73-76	C 63-66	D 50-56
A- 80-84	B- 70-72	C- 60-62	F 0-49

General Course Outline**I. In Search of Our Ancestors**

Introduction	Geologic Time Scale
The Biological Species Concept	Dating Methods
Genetics and Evolution	Excavation and Analysis
Natural Selection	Environment and Climate
Speciation	Taphonomy
Phylogeny and Classification	The Skeleton
Nomenclature	Case Sites

II. The Fossil Evidence

Primates Defined and Classified	Australopithecines
Living Primates	<i>Paranthropus</i> species
Ancestors of the Primates	Models of <i>Homo</i> evolution
Early Anthropoids	Early <i>Homo</i>
Proconsul and Contemporaries	<i>Homo ergaster (erectus)</i>
Middle Miocene Apes	<i>Homo heidelbergensis</i>
Late Miocene Apes	<i>Homo neanderthalensis</i>
	<i>Homo sapiens</i>

III. Interpreting the Evidence

Locomotion	Lower Palaeolithic
Feeding	Middle Palaeolithic
Geographical Spread	Upper Palaeolithic
Evolution and Behaviour	Art and Settlement Patterns