



# UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Culture e società
ACADEMIC YEAR	2023/2024
MASTER'S DEGREE (MSC)	ARCHAEOLOGY
SUBJECT	BIO-ANTHROPOLOGICAL RESEARCH METHODOLOGIES
TYPE OF EDUCATIONAL ACTIVITY	C
AMBIT	20871-Attività formative affini o integrative
CODE	22510
SCIENTIFIC SECTOR(S)	BIO/08
HEAD PROFESSOR(S)	SINEO LUCA                      Professore Ordinario                      Univ. di PALERMO
OTHER PROFESSOR(S)	
CREDITS	6
INDIVIDUAL STUDY (Hrs)	120
COURSE ACTIVITY (Hrs)	30
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	1
TERM (SEMESTER)	1° semester
ATTENDANCE	Not mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	<b>SINEO LUCA</b> Thursday 12:00 14:00 Studio - Via Archirafi 18 - Dip. STEBICEF - Biologia animale e Antropologia

**DOCENTE:** Prof. LUCA SINEO

<b>PREREQUISITES</b>	In this course we will examine how bioanthropological data can be used to study the evolution of human societies and of their daily and ritualized behaviors that meet in an archaeological context. Prerequisites of the course are the fundamentals of human evolution and paleoecology.
<b>LEARNING OUTCOMES</b>	<p>Knowledge and understanding ability  Knowledge of basic evolutionary phenomena; knowledge of basic paleoecological phenomena; knowledge of the biological mechanisms underlying human evolution and adaptation and its cultural evolution.  Ability to apply knowledge and understanding  Ability to carry out analysis and modeling in relation to the study of the skeleton, paleopathology, paleodemography and funerary rituals.  Judgment autonomy  Ability to understand the scientific importance of the analysis of endogenous and exogenous processes and the evolution of forms and the golden environmental and social impact.  Communication skills  The student will acquire the ability to compare and transmit their knowledge and skills in the analysis of the processes that have affected and will affect the Homo genus and the environment modified by him, his companies and their history.  Learning ability  By attending lectures and exercises, the student will develop their learning and process analysis skills in a perspective of comparison with the other disciplines of the course of study.</p>
<b>ASSESSMENT METHODS</b>	The exam is oral . The test evaluates the ability to correct expression and processing of basic concepts of the discipline and of the learner's capacity for critical analysis . The score will be the result of the critical evaluation of the specific preparation and the ability to exhibit a reasoned synthesis of the arguments. The 18/30 vote will be attributed to the least sufficient evidence. From 19 to 22 the vote will be indicative of poor preparation; a vote from 23 to 25 will be an index of discrete evidence; The votes from 27 to 29 will be a good test; the excellent test will be evaluated with the highest marks and, if the learner has demonstrated great ability to synthesize and criticize it, it will be commended with the attribution of the laudem.
<b>EDUCATIONAL OBJECTIVES</b>	<p>Biology of the skeleton and paleopathology.  Paleodemography and history of population dynamics.  Paleonutrition and isotopic studies.  Chronology and chronostratigraphy.  Morphological analysis and 3D rendering  Anthropometry  Geometric morphometrics</p>
<b>TEACHING METHODS</b>	The course is organized into 6 credits of lectures in which some practical exercises will also be carried out
<b>SUGGESTED BIBLIOGRAPHY</b>	<p>Manuale di Antropologia. Evoluzione e biodiversità umana. A cura di: Luca Sineo e Jacopo Moggi Cecchi. UTET 2022 ISBN:9788860086730  Human Evolution. Bones, Cultures, and Genes. J. Langdon. Springer 2022. Disponibile in Pdf.</p> <p>The Bioarchaeology of children. Lewis. Cambridge Press - ISBN-13 978 0 521 83602-9  Bioarchaeology – Larsen. Cambridge Press  Written in the Bones – Bahn. D&amp;C Press</p> <p>Material and tools will be provided as an integration to the information given during the lectures  Scientific articles, reference and tools will be provided weekly during the course.</p>

## SYLLABUS

<b>Hrs</b>	<b>Frontal teaching</b>
4	Biology of the skeleton and paleopathology.
6	Paleodemography and history of population dynamics. Paleo nutrition and isotopic studies.
4	Chronology and chronostratigraphy.
8	Morphological analysis and 3D rendering Geometric morphometrics
<b>Hrs</b>	<b>Practice</b>
8	Anthropometry