



# Course 018

## Advanced Osteological Analysis in the Roman Necropolis of Sanisera (Menorca – Balearic Islands – Spain)

### 1. General Information

**The Sanisera Archaeology Institute for International Field Schools** offers an annual archaeology dig on the island of Menorca, off the coast of Spain. Since then it has organized courses for students who come from all over the world to study abroad and who are interested in anthropology and osteology.

**The fieldwork focuses on the in-depth analysis of human skeletal remains excavated from the Roman necropolis at Sanisera. The aim is to use advanced osteological techniques to understand the lifestyle of the people who lived at this site.**

This course provides a unique opportunity to contribute to research on the individuals buried at the Roman necropolis at Sanisera. So far, more than 250 individuals from more than 50 tombs have been excavated, presenting a large amount of material from which we can understand the lifestyles of people in late antiquity. Participants will learn the techniques of analyzing and recording information from human skeletal remains in an archaeological context. In this lab based course, both lecture and experiential learning will be used to enable students to gain confidence in the identification and analysis of various skeletal conditions.

We will cover skills in basic demographics such as the techniques to determine age and sex of a skeleton, but will also progress to more advanced methodologies in osteological analysis. Students will learn skills such as: correctly measuring and recording skeletal elements according to set international standards , distinguishing between pathological and non pathological bone and assessing patterns in pathological lesions, identifying marks on the skeleton that indicate how muscles were used during the person's life (including determining left or right handedness), and assessing nutritional status from bones and teeth. Additionally, participants will learn how to bring these different sources of information together to re-create the biological life history of the individuals buried at this site.

### 2. What you will learn

#### 2.1. In the Fieldwork

- Funerary practices at the Sanisera site
- Taphonomic factors affecting survival of skeletal material

## *2.2. In the Laboratory*

- Complete osteological analysis of an individual funerary unit
- Assessment of disarticulated remains and computation of minimum number of individuals
- Application of standard techniques of bone measurement, age estimation, sex estimation, classification of dental pathology and tooth wear
- Identification of fragmentary bones
- Utilization of anatomical terminology to describe and discuss skeletal elements
- Recording osteological information on complex forms
- Recognition of non-metric traits and pathological bone

## *2.3. Theory*

- Development and application of osteological methods
- Assessment of cremated remains
- Chemical analyses of human bone – isotopes and DNA
- Identifying trauma in archaeological bone
- Challenges in paleodemography and paleoepidemiology
- Estimating ancestry of human skeletal remains

## **3. Directed at**

As the name implies, this course is designed for participants that have previously studied biological anthropology. This Sanisera Field School course does not include excavation, but **centers exclusively on the study and teaching of osteology using the remains excavated from the Roman necropolis.**

Participants will learn to draw conclusions and reconstruct aspects of the population's demographics such as pathologies, illnesses, etc. Because this course is specifically centered on biological anthropological concepts, this course is limited to four participants in order to best assimilate and apply anthropological concepts.

## **4. Field School life & language**

The fieldwork runs 7 hours a day with time dedicated to the study of human osteology by the analysis of the skeletal remains.

For every seven course days there are two days off.

**The course is taught in English.**

## 5. Certificates

At the end of the Field Program, students will receive a certificate of participation stating the hours and activities of the course.

Participants that perform exceedingly well in the course may receive a letter of recommendation from our organization upon request.

## 6. Sessions & Cost

Sessions	Dates	Cost
Session #1	2021   September 06 – September 21	\$ 2200
Session #2	2021   September 24 – October 09	\$ 2200
Session #3	2021   October 12 – October 27	\$ 2200
Session #4	2021   November 01 – November 16	\$ 2200
Session #5	2021   November 19 – December 04	\$ 2200

## 7. Course fee & Rules includes during the time of the COVID 19 pandemic

- Course tuition.
- Daily transportation to/from the archaeological fieldwork.
- A washing machine is available in the residence to clean personal clothes free of charge.
- Accident insurance at the site.
- Certificate of participation.
- Visits to museums and archaeological heritage of the island. It is also possible to visit places of charm and beaches. **All visits will be made with the utmost caution avoiding any type of large group of people.**
- Accommodation in the Student Residency in Ciutadella. **The rooms are spacious and easily ventilated. Room occupancy is limited to two to three people in single beds.**
- **Scrupulous daily cleaning of the entire residence by professionals with hygienic products against Covid.**
- **The staff will supervise the cleaning with hygienic hand gel at different times of the day, especially when the group arrives at the residence.**
- **Following the protection measures, the staff will ensure that the use of the mask covering the nose and mouth is mandatory throughout the day, whether during field work, laboratory activities or visits. In the common spaces of the residence it will also be mandatory. If any participant does not follow these rules, they will be expelled from the course.**
- **The staff will ensure that the group of participants has the minimum contact and relationship with other Spanish citizens or tourists, and the distance of 1.5 m will be taken into account between people.**
- **Each TEST COVID participant must present the negative certificate to the staff upon arrival in Menorca with less than 72 hours.**

- **Each participant upon arrival at the facilities of *Sanisera Archeology Institute* in Menorca, will sign a responsible statement in accordance with the preventive measures of COVID and that in case of discomfort or symptoms that both he and the staff consider may be harmful to the rest of the participants, they must go to a medical assistance center to diagnose your condition.**

Airfare not included from the student home to/from Menorca (Spain).

During the 2021 school season, in times of pandemic, catering will be offered for the main meal of the day after the daily activities of the field school that will be served even during rest days and between sessions. The catering is cooked according to allergies, vegetarian diet and religions. The cost of this service will be 120 dollars that will be delivered on the first day of the course and will be optional for the convenience of the participant. Payment is not mandatory if the participant is not interested.

However, the safest, most hygienic and economical places that serve food and supermarkets will be recommended.

**\*If you sign up for two sessions in a row** (32 days) that take place in Menorca, the days between sessions (3 or 4 days) you will have the accommodation for free.

## **8. Spaces available**

The course is limited to 6 participants per session. Reservations are only effective when payment of the registration fee is received. If for any reason the course is cancelled, payment is returned according to the field school refund policy.

## **9. Information and Reservations**

For more information, contact:

Email: [info@archaeology.institute](mailto:info@archaeology.institute)

Web page: [www.archaeology.institute](http://www.archaeology.institute)