**Biological Anthropology Masterclass 2021 Class Outline**

This course, offered by an expert team of bioarchaeologists from Silpakorn University, the University of Otago, and the Australian National University, will provide an introduction to both basic and advanced methods for studying human skeletal remains.

This course will consist of ten modules covering topics from basic skeletal anatomy and how to formulate a research question, to advanced isotopic and histological methods and publication. Modules can be selected according to individual skill level and interests, meaning that this course is applicable to both those wishing to gain basic bioarchaeology skills and those who are looking to extend already extant skill sets.

Upon successful completion of this course, students will have the knowledge and skills to:

* Formulate an original research question that is relevant within the field of bioarchaeology
* Conduct a basic skeletal census using correct anatomical terminology
* Estimate the age and sex of a person based on their skeleton and identify the presence of skeletal and dental pathology
* Understand the ethics of skeletal analysis and bone and tooth sampling
* Outline the basic theory of advanced methods such as isotopic analysis, histological analysis and micro-LEH study, and apply these techniques to human skeletal remains in a practical setting.
* Remember and explain the ethical and practical reasons for bone and tooth sampling protocols in ancient human skeletons, and identify what questions the study of bone and tooth samples can be used for.
* Publish the findings of original, collaborative research projects.

Certificates of participation will be provided to those who attend at least five of the ten seminars.

**For all those interested in participating, a Zoom ‘Meet and Greet’ is being held on the 26th of February to provide you with more information about the course**, and to introduce the presenters. You are invited to share a little about yourself and your interest in bioarchaeology.

To attend, please use the following Zoom Link: **shorturl.at/eA356**

If you have any questions or would like more information, please contact Dr Stacey Ward (stacey.ward@anu.edu.au)

**Masterclass Schedule**

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| **Dates** | **Seminar Title** | **Presenter** | **Objectives** |
| 26 February 2021 | Meet and Greet | Professor Rasmi Shoocongdej and Professor Siân Halcrow | Everyone is invited to come and discuss the course and their interest in bioarchaeology |
| 26 March 2021 | The Research Process | Prof Sian Halcrow | This interactive seminar will discuss how scientific research works, including how to come up with a unique research project |
| 30 April 2021 | Basic Skeletal Anatomy | Dr Stacey Ward | This talk introduces the major bones of the skeleton and the terminology used to describe them |
| 28 May2021 | How to Estimate Age from a Skeleton | Prof Siân Halcrow and Dr Stacey Ward | This talk will cover simplified theory and methods of how to tell how old someone was when they died. |
| 2 July 2021 | How to Estimate Sex from a Skeleton | Dr Charlotte King | This talk will show how to tell whether a set of skeletal remains is male or female. |
| 6 August 2021 | Identifying Pathology in the Bones and Teeth | Dr Naruphol Wangthongchaicharoen | In this talk we will talk about basic pathological processes in the skeleton and what these look like in human remains. |
| 1 October 2021 | Introduction to Isotopes | Dr Charlotte King | This talk will provide an introduction to isotopic analysis in bioarchaeology. |
| 29 October 2021 | Introduction to Histology | Dr Justyna Miszkiewicz | This talk will give you an introduction to the histological analysis of bone microstructure and ethical bone sampling. |
| 26 November 2021 | Introduction to Non-Specific Stress | Dr Stacey Ward | This talk will introduce the concept of non-specific stress and how we can study this from the human skeleton. |
| 10 December 2021 | Getting your research out there | Dr Justyna Miszkiewicz | This talk will cover how to present completed scientific research, from prestigious journals to Twitter! |