

Statistics for Archaeologists (A006816)

Course size *(nominal values; actual values may depend on programme)*

Credits 3.0 **Study time 90 h**

Course offerings in academic year 2026-2027

A (semester 1) Dutch Gent

Lecturers in academic year 2026-2027

Vandenabeele, Peter	LW02	lecturer-in-charge
Van Maldegem, Elliot	LW02	co-lecturer
Wylín, Glauke	LW02	staff member

Offered in the following programmes in 2026-2027

	crdts	offering
Bachelor of Arts in Archaeology	3	A
Preparatory Course Master of Arts in Archaeology	3	A

Teaching languages

Dutch

Keywords

statistics, data management, data presentation, calibration

Position of the course

This advanced course aims to acquaint students with a variety of methods, techniques, and aspects related to the use of statistical methods in archaeological research. In this subject, emphasis is placed on several basic concepts of statistical data processing within the field of archaeology. The course is closely aligned with the core competencies required for the Bachelor's degree in Archaeology.

Contents

Overview of the fundamental concepts in statistics, with applications in archaeology, including the possibilities of using information technology and statistical operations in archaeology, particularly in the areas of data management, presentation, and analysis.

The primary language of instruction for this course is Dutch, but some lessons may be taught in English or French.

Initial competences

Successful completion of the course unit Introduction to the Natural Sciences in Archaeology or acquisition of the competencies aimed for in that course in another way.

At the very least, possess passive knowledge of English and French in order to consult specialist literature.

Final competences

- 1 Able to handle digital data for basic analysis and data management.
- 2 Apply univariate statistical analyses to archaeological data.
- 3 Understand statistical processing of archaeological data and the conditions required for it.
- 4 Know and be able to readily use basic concepts and simple tests from statistics
- 5 Understand and be able to apply calibration techniques and Bayesian modeling of datings.
- 6 Be able to critically interpret and understand statistics and analysis in professional literature.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Seminar, Lecture, Independent work

Extra information on the teaching methods

Lecture: Students are expected to take additional notes alongside the provided study materials.

Workshop: Students are challenged to conduct analyses during the session based on several problems.

Independent work: Conducting experiments independently.

No lecture recordings.

Study material

Type: Syllabus

Name: Syllabus

Indicative price: Free or paid by faculty

Optional: no

Available on Ufora : Yes

Type: Software

Name: JASP

Indicative price: Free or paid by faculty

Optional: no

Available on Athena : No

Online Available : Yes

Usability and Lifetime within the Course Unit : intensive

Usability and Lifetime within the Study Programme : regularly

Usability and Lifetime after the Study Programme : intensive

References**Course content-related study coaching**

Individual help is only possible during workshops, via UFORA or through an appointment with the teachers or their assistants.

Assessment moments

continuous assessment

Examination methods in case of periodic assessment during the first examination period**Examination methods in case of periodic assessment during the second examination period****Examination methods in case of permanent assessment**

Skills test, Written assessment with multiple-choice questions, Written assessment with open-ended questions

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible in modified form

Extra information on the examination methods

Students receive written evaluations during the semester that consist of open-ended and multiple-choice questions, as well as a skills test.

Second chance NPGE: Alternative assignment

Calculation of the examination mark

Skills test (50%)

Written test (50%)

Facilities for Working Students

Possibility to be absent

Possibility to take exam at a different time

Possibility for feedback via email, after appointment

