

ARCH 5113 / ENST 5050
Method & Theory in Archaeology / Quantitative Research Methods
Winter 2026

WHEN IS IT? Wednesdays 7–10 pm
WHERE IS IT? BB 2002
WHO TEACHES IT? Dr. Matthew W. Tocheri

Office: BB 2001I

Email: mtocheri@lakeheadu.ca

Office Hours: in person or Wednesdays & Fridays 12:30-2:00pm

Course Description

ARCH 5113: Consideration of the theories and methods employed in research design, analysis, and interpretation in archaeological science research, involving both qualitative and quantitative approaches.

ENST 5050: Quantitative research theories and methods, and their application to the students' field of study.

Optional (not required) Textbook

Roberts, Kampen, & Peter, 2010. The Statistics Coach: Learning Through Practice. Oxford University Press

See the course D2L site (look in MyCourseLinks on the LU website) for other resources each week.

Learning Objectives

- 1) Learn quantitative research methods for archaeological science and environmental studies.
- 2) Understand how to choose among quantitative methods for your particular research question(s).
- 3) Identify limitations and/or obstacles that may arise when conducting quantitative analyses.
- 4) Understand how quantitative methods contribute to knowledge creation.
- 5) Achieve a broader and more informed outlook on what it means to conduct quantitative research.
- 6) Assist in the production of a thesis research plan/proposal and accompanying presentation.

Evaluation

Your final grade will be based on the following:

		Due Dates
Attendance/Participation	12%	
Assignments 1–6	45% (7.5% each)	TBA (usually 1 week after handed out)
Preview Presentation	7.5%	Feb. 12
Graduate Student Conference	7.5%	Feb. 24–25
Final Take Home Assignment	28%	TBA

Important Dates:

First Day of Classes: January 5
Final Day of Classes: April 7
Final Date to Register (Add): January 16
Final Date to Withdraw (Drop): March 6
Examination Period: April 10–19
Exam Contingency Date: April 20
Marks Due: April 23

Please note that **Friday, March 6** is the last date for withdrawal without academic penalty from this course. Students will have received feedback on at least 30% of the course mark by that date.

Missed assignments cannot be made-up unless official documentation of a reasonable excuse is submitted (e.g., student or family illness, death of family member, car accident). Please contact me by email within **48 hours** of any missed task or exam.

Academic Integrity

A breach of Academic Integrity is a serious offence. The principle of Academic Integrity, particularly of doing one's own work, documenting properly (including use of quotation marks, appropriate paraphrasing and referencing/citation), collaborating appropriately, and avoiding misrepresentation, is a core principle in university study. Students are strongly advised to familiarize themselves with the Student Code of Conduct - Academic Integrity ("The Code") – and Sections 26 and 83 through 85 in particular. Non-compliance with the Code will NOT be tolerated in this course and the Code will be adhered to in terms of disciplinary action. The Code provides a full description of academic offences, procedures when Academic Integrity breaches are suspected and sanctions for breaches of Academic Integrity.

<https://www.lakeheadu.ca/students/student-life/student-conduct>

All students should familiarize themselves with LU's Student Code of Conduct policy, which covers such misconduct as plagiarism, cheating, and disruption of teaching.

PLEASE READ IT!!

Copyright

Students should be aware that all instructional, reference, and administrative materials prepared for this course are protected in their entirety by copyright. Students are expected to comply with this copyright by only accessing and using the course materials for personal educational use related to the course, and that the materials cannot be shared in any way, without the written authorization of the course instructor. If this copyright is infringed in anyway, students may be prosecuted under the Lakehead University Student Code of Conduct – Academic Integrity, which requires students to act ethically and with integrity in academic matters and to demonstrate behaviours that support the University's academic values.

Mental Health

As a university student, you may sometimes experience mental health concerns or stressful events that interfere with your academic performance and negatively impact your daily activities. All of us can benefit from support during times of struggle. If you or anyone you know experiences academic stress, difficult life events or feelings of anxiety or depression, Student Health and Wellness is here to help. Their services are free for Lakehead Students and appointments are available. You can learn more about confidential mental health services available on and off campus at

lakeheadu.ca/shw. Remember that getting help is a smart and courageous thing to do – for yourself, for those you care about, and for those who care about you. Asking for support sooner rather than later is almost always helpful.

Academic Accommodations

Lakehead University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodations for students with disabilities and/or medical conditions to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a disability and think you may need accommodations, you are strongly encouraged to contact Student Accessibility Services (SAS) and register as early as possible. For more information, please contact [Student Accessibility Services](#) (SC0003, 343-8047 or sas@lakeheadu.ca)

Additional Supports for Students – there are many resources available to support students. These include but are not limited to:

- [Health and Wellness](#)
- [Student Success Centre](#)
- [Student Accessibility Centre](#)
- [Library](#)
- [Lakehead International](#)
- [Indigenous Initiatives](#)