

# ARKY 453

## DEPARTMENT OF ANTHROPOLOGY AND ARCHAEOLOGY FUNDAMENTALS OF GEOARCHAEOLOGY

### INSTRUCTOR

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and by appointment

### TEACHING ASSISTANT

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### COURSE INFORMATION

Prerequisite(s): 3 units from Archaeology 201, Geography 211, 310, or Geology 201, 209.

#### LECTURE & LAB HOURS, WINTER 2022

**Lecture:** Tue. 14:00-15:50

**Lab 01:** Thur. 14:00-14:50 **Lab 02:** Thur. 15:00-15:50

**Location:** Earth Science 859

#### COURSE DESCRIPTION

This course examines analytical methods used in geoarchaeology. The interpretation of site and regional context, provenance, and paleoenvironment, as well as the application of dating methods, remote sensing, and chemical and isotopic methods will be covered.

#### REQUIRED TEXTS

*Geoarchaeology: The Earth Science Approach to Archaeological Interpretation*, by George Rapp and Christopher Hill, Yale University Press, 2<sup>nd</sup> edition.

*Geoarchaeology Lab Manual* by A. Freeman (posted to D2L).

Additional required readings will be posted to D2L or otherwise made available.

### INFORMATION ON ASSESSMENT METHODS

**Midterm exams** and the **final quiz** are closed book and will be a combination of multiple choice, true/false, and short answer. **Lab assignments** are due one week after each topic covered and must be submitted no later than the start time of the student's lab period.

## COURSE OUTCOMES

Students who perform at average or above average level will be able to describe the tools used by the geoarchaeologist and the application of those tools. They will be able to discern the methods best applied in archaeological field and laboratory work. Students will learn to apply and evaluate quantitative methods used by geoarchaeologists. They will be able to critically evaluate geoarchaeological research presented in peer reviewed literature, and to discuss appropriate use of techniques with specialists in the field of geoarchaeology.

<b>Midterms</b> (2 x 25%)	50% (February 17, March 15)
<b>Labs</b> (8 x 4%)	32%
<b>Final Quiz</b>	8% (April 12)
<b>Project/Paper</b>	10% (due April 12)

Writing will be evaluated as part of the final project/paper. There will be no registrar scheduled final examination.

### Due to the recent announcement of the extension of online classes:

- Midterm One (worth 25%) will be taken on D2L beginning at **2pm on Thursday, Feb 17<sup>th</sup>** and will be available for 24 hours.
- When you access Midterm One under 'Assessments – Quizzes' on D2L, you will have 50 minutes plus 50% extra time for a **total of 75 minutes** to complete and submit it. The extra time is provided to account for issues with technology, caregiving responsibilities, or distractions within your test-taking environment. Contact the instructor through D2L email as soon as possible if you encounter any issues that affect your ability to complete the assessment.
- Midterm One is open book. Questions will be designed accordingly. You can use your course notes and any materials I posted to D2L under Content. You cannot use Google or any other internet resource.
- Midterm One will cover lectures, labs, and readings assigned since the beginning of term up to the exam date.
- The format will include a mixture of multiple choice, true/false, and short and medium answer questions.

### GRADING SCHEME

Each item of course work will be weighted as above and a final mark out of 100 calculated. This will then be converted to a letter grade as follows:

<b>A+</b> 95 – 100%	<b>B</b> 75 – 79.9%	<b>C-</b> 59 – 62.9%
<b>A</b> 90 – 94.9%	<b>B-</b> 71 – 74.9%	<b>D+</b> 55 – 58.9%
<b>A-</b> 85 – 89.9%	<b>C+</b> 67 – 70.9%	<b>D</b> 50 – 54.9%
<b>B+</b> 80 – 84.9%	<b>C</b> 63 – 66.9%	<b>F</b> < 50%

You must complete all components to pass the course. You do not need to pass all components to pass the course.

## COURSE POLICIES

### **STUDENT CONDUCT**

Students are expected to be engaged in course content during lecture and lab sessions. Computers, tablets and other digital tools are to be used for content directly related to the course (looking up definitions, taking notes). Cellular phones and email alerts should be turned off during lecture and lab sessions.

Students are asked to email the course instructor or TA via D2L when asking to set up an appointment or asking a question about the course.

### **EXAMINATION POLICIES**

Deferred examinations are allowed only when the student has an excused absence (see Missed Exams or Assignments, over).

Midterm Examinations and Final Quiz will be closed book. No calculators may be used during examinations.

The use of digital devices is prohibited during examinations.

### **OTHER**

You will not be asked to participate in or conduct research on human subjects.

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### **TECHNOLOGY REQUIRED**

- A computer with a supported operating system, as well as the latest security, and malware updates
- A current and updated web browser
- Current antivirus and/or firewall software enabled
- Stable internet connection
- Adobe Reader to read and print PDF files
- Assignments submitted electronically must be in WORD format
- Zoom software installed

### **EMAIL COMMUNICATION**

For emails, please include ARKY 453 in the subject line, use your [ucalgary.ca](mailto:ucalgary.ca) email address only, compose your email using a formal greeting and professional tone, and state your full name and student id number in your sign off. The Instructor or Teaching Assistant will respond as soon as possible, but no later than within 48 hours, excluding weekends.

### **MISSED EXAMS OR ASSIGNMENTS**

Students may provide supporting documentation for a special request regarding a prolonged absence from the lab portion of the course where participation is required, a missed assignment, a deferred examination, or an appeal. Students are encouraged to submit documentation that will support their situation. Supporting documentation dependent on the specific situation could be medical

certificate/documentation, police reports, invitation letter, a statutory declaration, etc. The decision to provide supporting documentation is at the discretion of the student.

Students can make a Statutory Declaration in the presence of a Commissioner for Oaths as their supporting documentation. A Statutory Declaration demonstrates the importance of honest and accurate information and is a legally binding declaration. Several registered Commissioners for Oaths are available on campus at no charge to students. Please see [ucalgary.ca/registrar](http://ucalgary.ca/registrar). Falsification of any supporting documentation may result in disciplinary action through the Academic Discipline regulations or the Student Non-Academic Misconduct policy.

**REAPPRAISAL OF GRADED TERM WORK:** <http://www.ucalgary/pubs/calendar/current/i-2html>

**REAPPRAISAL OF FINAL GRADE:** <http://www.ucalgary.ca/pubs/calendar/current/i-3.html>

### **ACADEMIC ACCOMMODATIONS**

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit <https://live-ucalgary.ucalgary.ca/student-services/access>. Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor or the Department Head. The full policy on Student Accommodations is available at <https://www.ucalgary.ca/legal-services/university-policies-procedures/accommodation-students-disabilities-procedure>

### **ACADEMIC MISCONDUCT**

“Academic Misconduct” includes such things as cheating, falsification, plagiarism, unauthorized assistance, and failure to comply with exam regulations or an Instructor’s expectations regarding conduct required of Students completing academic assessments. Students who participate in, or encourage the commission of, Academic Misconduct will be subject to disciplinary action which could include Probation, Suspension, or Expulsion from the University. For information on academic misconduct and its consequences, please see the University of Calgary Calendar at <https://www.ucalgary.ca/pubs/calendar/current/k-3.html>. Further support on academic integrity is available at: <https://ucalgary.ca/student-services/student-success/learning/academic-integrity>

### **INSTRUCTOR INTELLECTUAL PROPERTY**

Course materials created by professor(s) (including course outlines, presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the professor(s). These materials may NOT be reproduced, redistributed or copied without the explicit consent of the professor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

### **FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY ACT**

Student information will be collected in accordance with typical (or usual) classroom practice. Students' assignments will be accessible only by the authorized course faculty. Private information related to the individual student is treated with the utmost regard by the faculty at the University of Calgary.

### **COPYRIGHT LEGISLATION**

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (<https://ucalgary.ca/legal-services/university-policies-procedures/acceptable-use-material-protected-copyright-policy>) and requirements of the copyright act (<https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>) to ensure they are aware of the consequences of unauthorized sharing of course materials (including instructor notes, electronic versions of textbooks, etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

### **SUPPORT AND RESOURCES**

Please visit the Registrar's website at: <https://www.ucalgary.ca/registrar/registration/course-outlines> for additional important information on the following:

- Emergency Evacuation/Assembly Points
- Wellness and Mental Health Resources
- Student Success Centre
- Student Ombuds Office
- Student Union (SU) Information
- Safewalk