

ARCHAEOLOGY 415
LITHIC TECHNOLOGY

WINTER 2014

Instructor: Brian Kooyman
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Office Hours: W 10:00-12:00, or by appointment
Lecture/Lab: TR 14:00 – 16:45 ES 859

COURSE DESCRIPTION

The analysis of stone (lithic) tool form, manufacture, and use as applied to reconstruction of past human lifeways. Topics covered include: methods of shaping stone into tools; reconstruction of the lithic reduction process and stages from discarded debitage; lithic fracture mechanics; identification of lithic material types and sourcing to specific quarries; the meaning of stone tool morphology; tool typology; lithic usewear analysis; and the integrative use of these sources of information to reconstruct aspects of tool use, activity areas, site type, settlement patterns, social group, cultural change through space and time, trade, and exchange.

TEXT

Brian Kooyman .2000. *Understanding Stone Tools and Archaeological Sites*. University of Calgary Press and University of New Mexico Press.

GRADING:

NOTE: There is no Registrar-scheduled final examination. No single component of the course must be passed to pass the course.

Lab Quizzes (5, each for 5%)	25%
Labs	30%
Lithic Analysis Project (Due April 11; NOON)	45%

Grading Scheme

A/A+	90-100%	C	66-69%
A-	86-89%	C-	62-65%
B+	82-85%	D+	56-61%
B	78-81%	D	50-55%
B-	74-77%	F	<50%
C+	70-73%		

DETAILED COURSE STRUCTURE

Although there are distinct lecture and lab components in the course, the course structure is flexible to allow these two portions to mesh as seamlessly as possible. On most days there will be a lecture of about 1-1.5 hours duration. This will be followed immediately by a lab specifically on the material presented in that lecture. In most cases students may preview the material covered by advance reading of the textbook. On some days the entire lecture and lab period will be devoted to lab work and in a few cases most of the period will be devoted to presentation of lecture material (with a break part way through the period). During the second half of the course there are several days assigned as time for students to work on the lithic analysis project. During one class in September or October there will be a stone tool manufacturing demonstration. Students will have an opportunity to try making stone tools during this demonstration.

i) Lectures: lectures provide the formal theoretical and methodological structure of lithic tool analysis. Lectures employ Powerpoint presentations, actual examples, and other illustrative material to introduce students to the concepts and skills needed to interpret lithic tools from archaeological sites. Occasionally demonstrations are employed to present concepts where appropriate.

ii) Labs: many labs provide multiple examples of artifacts and geological materials for students to examine and handle so that the features critical to analysis and interpretation can be recognized and categorized. The other labs provide practice samples of material from archaeological sites for students to analyze and interpret so as to develop these critical skills.

Evaluation Methods

Evaluation focuses on how well students have learned practical, laboratory analysis skills and to a lesser extent on how well students can use the results of their analyses to reconstruct human activities.

Some of the labs have components that must be handed in for grading. In each case these do not require a formal lab write up, but rather require the student to examine a sample of material and classify it in some manner. A short interpretation, often a provided data sheet, is handed in as the written portion of the lab.

Evaluation is also through five lab quizzes that specifically test practical identification and classification skills. The quizzes consist of a series of stations. A lithic artifact is present at each station and there is a question about that artifact that must be answered.

In the last component of course evaluation, each student is given a sample of a few hundred lithic pieces from an archaeological site. Each student is asked to analyze this material in the manner outlined in the course so as to provide as complete an interpretation as possible of the archaeological site where the material was found. The project requires a formal written report including data tables and interpretations from those data. Certain data tables are required prior to project completion so that the work load is more evenly spread over the allotted time period.

ADDITIONAL CONTENT

Writing across the Curriculum

Writing skills are not exclusive to English courses and, in fact, should cross all disciplines. The University supports the belief that throughout their University careers, students should be taught

how to write well so that when they graduate their writing abilities will be far above the minimal standards required at entrance. Consistent with this belief, students are expected to do a substantial amount of writing in their University courses and, where appropriate, instructors can and may use writing and the grading thereof as a factor in the evaluation of student work. The services provided by the Writing Centre in the Effective Writing Office can be utilized by all undergraduate and graduate students who feel they require further assistance.

Academic Accommodation Policy

It is the students' responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodations and have not registered with Student Accessibility Services, please contact them at 403-220-6019. Students who have not registered with Student Accessibility Services are not eligible for formal academic accommodations. More information about academic accommodations can be found at www.ucalgary.ca/access.

Freedom of Information and Protection of Privacy Act

The University of Calgary is committed to protecting the privacy of individuals who work and study at the University or who otherwise interact with the University in accordance with the standards set out in the Freedom of Information and Protection of Privacy Act.

Please refer to the following link for detailed information:

<http://www.ucalgary.ca/legalservices/foip>

Academic Misconduct

Academic dishonesty is an unacceptable activity at the University of Calgary and students are **strongly advised** to read the Student Misconduct section of the University Calendar. Quite often, students are unaware of what constitutes academic dishonesty or plagiarism. The most common are:

- 1) Presenting another student's work as your own
- 2) Presenting an author's work or ideas as you own without proper referencing
- 3) Using work completed for another course

This activity will not be tolerated and students conducting themselves in this manner will be dealt with according to the procedures outlined in the University Calendar.

For detailed information on what constitutes academic misconduct, please refer to the following link:

<http://www.ucalgary.ca/pubs/calendar/current/k-2-1.html>

Plagiarism

Plagiarism involves submitting or presenting work as if it were the student's own work when it is not. Any ideas or materials taken from another source written, electronic, or oral must be fully and formally acknowledged. Plagiarism includes but is not limited to:

- (a) The work submitted or presented was done, in whole or in part, by an individual other than the one submitting or presenting the work (this includes having another impersonate the student or otherwise substituting the work of another for one's own in an examination or test),
- (b) Parts of the work are taken from another source without reference to the original author,
- (c) The whole work (e.g., an essay) is copied from another source, and/or,
- (d) A student submits or presents work in one course which has also been submitted in another course (although it may be completely original with that student) without the knowledge of or prior agreement of the instructor involved.

While it is recognized that scholarly work often involves reference to the ideas, data and conclusions of other scholars, intellectual honesty requires that such references be explicitly and clearly noted. Plagiarism is an extremely serious academic offence. It is recognized that clause (d) does not prevent a graduate student incorporating work previously done by him or her in a thesis or dissertation.

Emergency Evacuation Assembly Points

In the event of an emergency that requires evacuation, please refer to the following link to become familiar with the assembly points for the class:

<http://www.ucalgary.ca/emergencyplan/assemblypoints>

Safewalk Information

Campus Security, in partnership with the Students' Union, provides the Safewalk service, 24 hours a day to any location on Campus including the LRT, parking lots, bus zones and University residences. Contact Campus Security at (403) 220-5333 or use a help phone, and Safewalkers or a Campus Security Officer will accompany you to your campus destination.

Faculty of Arts Program Advising and Student Information Resources

- Have a question, but not sure where to start? The new Faculty of Arts Program Information Centre (PIC) is your information resource for everything in Arts! Drop in at SS102, call us at 403-220-3580 or email us at artsads@ucalgary.ca. You can also visit the Faculty of Arts website at <http://arts.ucalgary.ca/undergraduate> which has detailed information on common academic concerns.
- For program planning and advice, contact the Student Success Centre (403) 220-5881 or visit them in their new space on the 3rd Floor of the Taylor Family Digital Library.

- For registration (add/drop/swap), paying fees and assistance with your Student Centre, contact Enrolment Services at (403) 210-ROCK [7625] or visit them at the MacKimmie Library Block.

Contact Information for Student and Faculty Representation

Student Union Vice President – Academic

Phone: (403) 220-3911

Email: suypaca@ucalgary.ca

Student Union Faculty Representatives

arts1@su.ucalgary.ca

arts2@su.ucalgary.ca

arts3@su.ucalgary.ca

Student Ombudsman's Office

<http://www.ucalgary.ca/provost/>