



**ANTHROPOLOGY 413**  
**Methods in Primatology**  
**Spring 2022**

**Prerequisite:** Anthropology 311

**Lecture:** Monday & Wednesday 09:00-11:45

**Location:** ES 054

**Laboratory:** Tuesday & Thursday 09:00-11:45

**Location:** Calgary Zoo

**Instructor:** Nicola Guthrie

**Office:** Earth Sciences 748

**Tel:** 403-978-0623

**E-mail:** nicola.guthrie@ucalgary.ca

**Office Hours:** Mon 13:00-15:00

**Instructor e-mail policy:** Please note that all course communications must occur through your @ucalgary email, and I will respond to emails within 48 hours.

**TA:** Abby Colby

E-mail: abigail.colby@ucalgary.ca

*The Teaching Assistant is available to meet with students during laboratory hours*

### **COURSE DESCRIPTION**

In this course, we will address research methods in the study of primate social systems. The laboratory component consists of instruction in observational methodology and exercises. We will take students through the various stages of the research process, including research topics and hypotheses, methodology, data collection, analysis, and presentation. The aim is to help students develop the skills to conduct advanced, independent research in primatology, whether in captivity or in a field environment.

### **COURSE LEARNING OUTCOMES**

At the end of this course, students should be able to:

1. **Identify** general primate anatomical, life history and behavioural characteristics, major groupings in the primate evolutionary tree, categories of primate social systems, and primary behavioural strategies to enhance fitness in primates.
2. **Recall and describe** the theory behind behavioural observation methodology, behavioural observation and ecological methods used in primate studies, components of the scientific method.
3. **Carry out** behavioural observation techniques to collect original data on captive primates.
4. **Implement** basic descriptive statistical analyses using observational data.
5. **Test** hypotheses using observational data.
6. **Apply** standard practices in scientific writing in a report.

7. **Produce** a scientific report based on behavioural observation data.

**REQUIRED TEXTS (available at the UCalgary Bookstore)**

1. Teichroeb JA, Corewyn LC, and Patterson JD. 2021. Primate Behavior: An Exercise Workbook. 3rd ed. Long Grove, Ill: Waveland Press, Inc.
2. Setchell JM, and Curtis DJ. 2011. Field and Laboratory Methods in Primatology: A Practical Guide. 2nd ed. Cambridge: Cambridge University Press.

**LEARNING TECHNOLOGIES AND REQUIREMENTS**

There is a D2L site for this course which contains information on assignments and other relevant class resources and materials (see <https://d2l.ucalgary.ca>).

**IMPORTANT DATES (see detailed lecture and lab schedules below)**

May 4	First day of lectures
May 23	Victoria Day
June 15	Last day of lectures

**ASSESSMENT COMPONENTS (see details below and on d2l.ucalgary.ca)**

Assignment	Due Date	% Total Grade
Online Recap Quiz	May 15	2.5%
Lab Assignment #1	May 15	2.5%
Lab Assignment #2	May 27	20%
Test #1	May 30	25%
Lab Assignment #3	June 15	25%
Final exam	TBA/Registrar's Scheduled	25%

Students are expected to attend lectures and to participate in all assigned exercises. Some of the work for this course will be conducted at the Calgary Zoo, and attendance for scheduled labs is mandatory. Accommodation will be made for the transportation time of students with courses held on campus immediately after lab hours. Students are responsible for materials covered in the textbooks and lectures. Classroom materials missed due to absenteeism are the sole responsibility of the students.

A quiz to recap important information from Anth 311 will be posted on D2L which you will need to complete for 2.5% of your grade. An Introduction to Primates PDF will be provided on D2L as study material. You only need to complete the quiz to get 2.5%, your grade will not be considered, although it is necessary to know this information going forward in this course.

Tests 1 and 2 (final exam) are multiple-choice and short answer format. Only basic calculators and pens/pencils may be used for tests. If you miss a required component of the course, you must contact the instructor in writing (e-mail) within 24 hours to discuss options to submit and/or make up for that component. Assignments submitted after the deadline may be penalized with the loss of a grade (e.g.: A- to B+) for each day late. If you foresee a missed test

or assignment due to a personal scheduling conflict, you must contact the instructor at least two weeks prior to the due date. In these cases, make-ups and extensions are at the discretion of the instructor.

### MARKING GUIDELINES

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

A passing grade on any particular component of the course is not essential for the student to pass the course as a whole. See also <https://www.ucalgary.ca/pubs/calendar/current/f-1.html>.  
Reappraisal of Graded Term Work: <http://www.ucalgary.ca/pubs/calendar/current/i-2.html>.  
Reappraisal of Final Grade: <http://www.ucalgary.ca/pubs/calendar/current/i-3.html>.

### EXPECTATIONS FOR WRITING

All written assignments (including, to a lesser extent, written exam responses) will be assessed at least partly on writing skills. Writing skills include not only surface correctness (grammar, punctuation, sentence structure, etc.) but also general clarity and organization. Sources used in research papers must be properly documented. If you need help with your writing, you may use the writing support services in the Learning Commons. For further information, please refer to the official online University of Calgary Calendar, Academic Regulations, E. Course Information, E.2: Writing Across the Curriculum: <http://www.ucalgary.ca/pubs/calendar/current/e-2.html>.

### LECTURE SCHEDULE

*Subject to change, including reading assignments*

#### Part I. Methods in Primate Behaviour

*Reading: Teichroeb et al. Chapters 1-4, 6-7, 9*

May 4	General Introduction to the Course
May 9	Behaviour Basics Introduction to Assignment #1
May 11	Observational Methods Research Design
May 16	Analysis Introduction to Assignment #2
May 18	Scientific Writing Organizing Data in Spreadsheets

- May 25      Test Review  
 Assignment #2 Workshop
- May 30      **Test #1**  
 Introduction to Assignment #3

**Part II. Field Methods in Primatology**

*Reading: Teichroeb et al. Chapters 5, 10, Exercises 15-18; Setchell & Curtis Chapters 4, 3, 6, 8, 10, 12, 13, 14, 20, 21*

- June 1      Measuring Primate Populations  
 Analysis of Movement Behaviour
- June 6      Habitat Sampling  
 Analysis of Primate Diets
- June 8      Animal Handling & Non-Invasive Techniques
- June 13     Remote sensing  
 Assignment #3 Workshop
- June 15     Review for Test #2
- TBA         **Test #2 – during final exam period June 20 - 22**

**LABORATORY SCHEDULE & ASSIGNMENTS**

**May 5 – No lab for the first week**

**May 9 - June 9** – Regular Laboratory Meetings at the Calgary Zoo

We will meet weekly on Tuesdays and Thursdays at the Zoo to discuss lab assignments, provide help and feedback, etc. The instructor and/or teaching assistant will be present at these times. There will be some days with no scheduled labs, generally the day prior to the deadline for each lab assignment (currently scheduled for May 5<sup>th</sup>, May 26<sup>th</sup>, and June 14<sup>th</sup>, subject to change).

**You must attend scheduled labs to collect data for assignments.** However, if you wish to collect data *beyond* the required minimum observation time, you are free to work independently on assignments at any other time during Zoo business hours.

**May 15 – Assignment #1** due. This assignment is a brief assignment based on Exercise 4 in the Teichroeb et al. workbook. Further instructions will be provided in the lecture on May 9<sup>th</sup>.

**May 27 – Assignment #2** due. This assignment is based on Exercise 6 in the Teichroeb et al. workbook. Further instructions will be provided in the lecture on May 16<sup>th</sup>.

**June 15 – Assignment #3** due. This assignment is based on Exercise 9 in the Teichroeb et al. workbook. Further instructions will be provided in the lecture on May 30<sup>th</sup>.

### **GUIDELINES FOR SUBMITTING ASSIGNMENTS**

Please submit all assignments electronically to Dropbox in D2L. Assignments may be submitted in Word or PDF format. PDF format is preferred as it keeps the formatting consistent. Assignments should have a file name as follows: “First Name Last Name Assignment Number” (e.g., Alex Smith Assignment 2). Assignments must be submitted by 11:59 pm on their due date. It is the student's responsibility to keep a copy of each submitted assignment and to ensure that the proper version is submitted.

### **ADDITIONAL COURSE INFORMATION**

To conduct the research exercises at a minimum cost, students will need to purchase a special Student Membership in the Calgary Zoological Society (\$30 + GST = \$31.50). Forms for this will be given out on May 4<sup>th</sup>. When working at the Calgary Zoo, please do not act as information providers to the public. Please refer curious fellow visitors to the Zoo staff or docents for information on the animals.

Please be respectful of Zoo visitors by allowing them access to viewing areas and walkways, refraining from loud or disruptive conversation, etc. Also please be respectful to all animals at the Zoo, including avoiding eye contact, refraining from tapping on enclosure glass, or otherwise attempting to engage the animals, etc.

Students are not expected to participate as subjects or researchers in research on human subjects (only *nonhuman* primates!).

### **CONDUCT**

Students, employees, and academic staff are also expected to demonstrate behaviour in class that promotes and maintains a positive and productive learning environment. As members of the University community, students, employees, and academic staff are expected to demonstrate conduct that is consistent with the University of Calgary Calendar, the Code of Conduct and Non-Academic Misconduct policy and procedures, which can be found at: <http://www.ucalgary.ca/pubs/calendar/current/k.html>

### **USE OF INTERNET AND ELECTRONIC COMMUNICATION DEVICES IN CLASS**

The use of laptop and mobile devices is acceptable when used in a manner appropriate to the course and classroom activities. Please refrain from accessing websites and resources that may be distracting to you or for other learners during class time. Students are responsible for being aware of the University's Internet and email use policy, which can be found at <https://www.ucalgary.ca/policies/files/policies/electronic-communications-policy.pdf>

### **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.

### **SEXUAL VIOLENCE POLICY**

The University recognizes that all members of the University Community should be able to learn, work, teach and live in an environment where they are free from harassment, discrimination, and violence. The University of Calgary’s sexual violence policy guides us in how we respond to incidents of sexual violence, including supports available to those who have

experienced or witnessed sexual violence, or those who are alleged to have committed sexual violence. It provides clear response procedures and timelines, defines complex concepts, and addresses incidents that occur off-campus in certain circumstances. Please see the policy available at <https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf>

### **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