

UNIVERSITY OF GUELPH
College of Social and Applied Human Sciences
Department of Sociology and Anthropology

ANTH*XXXX: One Health Approaches to Conservation (1.0) Summer, 20XX

Instructor: Prof. Travis Steffens
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Virtual Office Hours TBD.
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Pre-field Class Time: TBD
Class Location: TBD
Course Websites: TBD

Course Outline

Calendar Description:

This course introduces students to One Health approaches to conservation through an experiential learning opportunity in Madagascar. Students will work using the One Health approach to address a conservation issue facing an endangered primate group (lemurs) within a forest environment shared by people and their domestic animals.

Detailed Course Description:

In this course students will be introduced to research project design, implementation, and analysis with a focus on actual and holistic field data collection using a One Health approach. Training in research methods include the fundamentals of measuring the relationship between humans, animals, and their shared environment through natural and social science methods to assess behaviour and ecology. Students will also be introduced to methods of collection and preparation of samples for DNA and parasite analysis, the use of GIS in conservation, and methods for assessing the success of conservation and development activities. Daily activities and expertises are designed to demonstrate the realities of data collection within a real world conservation and development context that leverages a One Health Approach; help students assess the pros and cons of various data collection, and applied conservation techniques in practice; and to think in terms of the quantitative and qualitative measurement of key research/applied conservation variables. Training will also include skills needed to be a successful researcher and/or conservationist including teamwork, problem solving, logistics preparation, and communicating and working with people from different cultural backgrounds. This full (1.0) credit course will be split into two sections, **1. Research Methods and Design for One Health Approaches to Conservation (0.5 credits); 2. Field Study in Conservation (0.5 credits).**

1. This course will provide students with training on field methods including behavioural sampling methods for non-human primates, GIS methods for assessing spatial relationships, participatory, survey, ethnographic methods to understand human behaviour, and applied conservation program assessment methods. This component of the course will also require the design of a research project using a One Health approach including the identification and operationalization of a research question and the collection and analysis of data.

Evaluation:

Description	Weighting
Methods Exam	20%
Research Proposal	30%
Class Presentation	20%
Literature Review	10%
Field Ecology & Conservation Exam	20%

2. This component of the course will provide intensive training and practice in field methods. Students will apply the methods they learned in the first half of the course and will also conduct their own field research project.

Evaluation:

Description	Weighting
Field Log	20%
Daily/Weekly Exercises and Activities	30%
Final Data Analysis Assignment	20%
Daily Performance and Conduct in the Field	20%
Final Exam	10%

Note: Final marks are tentative until approved by the Department Chair and Dean's Office and recorded in the Office of the Registrar. Marks from on CourseLink or Top Hat are not official.

Learning Objectives:

This course is designed to enhance students' understanding through experiential learning the following:

- Ability to synthesize quantitative and qualitative research from the natural and social sciences to incorporate into a research project that leverages a One Health approach. .
- Apply appropriate research methodologies to address a real world conservation issue using a One Health approach

- Living non-human primate characteristics, adaptations, and behaviour within an environment shared with humans
- Critically evaluate conservation programs and their real world impact on people, wildlife, and their shared environment.
- Ability to work within an intercultural context to develop skills necessary for working within an international context or team environment.

Course Schedule

Pre-course:

- Information and Selection Meeting
- Application Deadline
- Notification of selected students
- Program deposit
- Mandatory meeting of selected students
- Airline tickets paid
- Meeting to begin pre-session study

Course:

- Week 1: Classroom
 - Training
 - Exam
 - Field Preparation
- Week 2: Travel to Madagascar
- Week 3: Madagascar
- Week 4: Madagascar
- Week 5: Travel to Canada
- Week 6: Post Session work on Research Proposal and Class Presentation