COURSE OUTLINE

ANTH 101

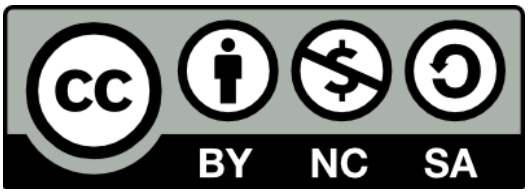
INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY

45 HOURS
3 CREDITS

PREPARED BY: N. A. Easton
DATE: August 20, 2020

APPROVED BY: Andrew Richardson, Dean Applied Arts
DATE: December 21, 2020

APPROVED BY SENATE: Click or tap to enter a date
RENEWED BY SENATE: Click or tap to enter a date



Introduction to Biological Anthropology

INSTRUCTOR: Norman A. Easton

OFFICE LOCATION: As arranged

E-MAIL: neaston@yukonu.ca

TELEPHONE: 393-8012

OFFICE HOURS: As Requested

CLASSROOM: Online Zoom

CLASS TIME: 9:00 – 10:30 am

DATES: MON & WEN Click or tap to enter a date.

COURSE DESCRIPTION

This course provides a broad review of the principles and facts of human evolution and adaptations. The first half of the course examines the biological principles of evolutionary theory, population genetics, human variation and our taxonomic relationship with and sociality of the other extant primates. The second half of the course will focus on the evidence for the evolution of primates, hominids, and hominins in the existing fossil record, the migration of the Genus Homo throughout the globe, and the biological effects on our species of cultural/technological change since the advent of agriculture. A term paper will allow students to explore a topic in the discipline in more detail using published scientific papers while Laboratory exercises will develop students' technical skills in the application of theory to practical problems.

PREREQUISITES

Admission to Liberal Arts. Note that ANTH 101 is now designated as an eligible course to fulfil the Liberal Arts science requirement.

RELATED COURSE REQUIREMENTS

None

EQUIVALENCY OR TRANSFERABILITY

UBC Anth 140 (3)
UVIC Anth 100L (1.5)
UAS Elec. (3)
TRU Anth 1110 (3)
CAMO Anth 100L (3)
SFU Arch 131 (3)
UAF Anth 103 (3)
UR Anth 250 (3)
TWU Anth 100L (3)
AU Anth 278 (3)

UNBC Anth 1XX (3);
Yukon University Anth 101/103 = UNBC 102 (3) and Anth 1XX (3)

LEARNING OUTCOMES

With conscientious effort, upon successful completion of the course, students will

1. Understand the philosophy and methods of the scientific exploration of our evolutionary history through time.
2. Understand the biological mechanisms of inheritance, adaptations, and evolutionary change.
3. Understand the principles of systematics, taxonomy, and our primate heritage.
4. Have a broad understanding of the evidence for and theories of explanation of the evolutionary history of the Genus Homo.
5. Gain proficiency in basic laboratory methods related to the treatment, measurement, identification, and analysis of skeletal remains.

COURSE FORMAT

Due to COVID-19 and social distancing recommendations from the Chief Medical Officer of Health, this course is being taught online using a variety of materials, activities, and technical solutions. You will need to visit the course Moodle site and participate in online activities and discussions as assigned and scheduled.

Classes will consist of lectures and discussions on the current week's topic and weekly laboratory assignments.

The class will proceed on a timetable with set assignments and due dates. This is not a self-paced course.

ASSESSMENTS

Attendance & Participation

All students will be expected to attend and actively participate in class and online discussions and activities, as assigned by the instructor. The material covered in the classroom is cumulative in nature, and missing classes may put students at a disadvantage. Regular attendance will be graded out of 20 marks; informed participation in class discussions will be worth up to 10 marks.

Assignments

Laboratory Assignments

Students will undertake a weekly laboratory assignment consisting of an introductory lecture and instruction in methods followed by a practical application to a set of questions provided by the instructor. Scores on each lab will be prorated at the equivalent of 10 course marks.

Research Paper

Choosing from a list of options provided by the Instructor, Students will prepare a term paper which explores a topic in bioanthropology in further detail, appropriately **referencing a minimum of 6 peer reviewed scientific papers or texts** on the topic.

Essay topics must be **chosen and approved no later than week three** of the course – **Thursday September 24 2020**.

The final paper is **due in Week 11 (Tuesday November 17 2020**). Up to 50 Marks will be awarded for the submitted research essay.

Final Exam

A comprehensive final examination will be written during the designated exam period at the end of term. It will combine multiple choice, true or false, and short answers, and be worth a total of 100 marks.

EVALUATION

Lab Assignments 120 marks	40%
Term Paper 50 marks	17%
Participation 30 marks	10%
Final Exam 100 marks	33%
Total 300 marks	100%

REQUIRED TEXTBOOKS AND MATERIALS

The primary text for this course is an open access text:

EXPLORATIONS: AN OPEN INVITATION TO BIOLOGICAL ANTHROPOLOGY. Editors: Beth Shook, Katie Nelson, Kelsie Aguilera and Lara Braff .American Anthropological Association, Arlington, VA 2019 available online at: http://explorations.americananthro.org/

Additional supplementary readings on recent discoveries and issues will also be assigned. Lab exercises will be distributed throughout the term. A full reading list will be made available after the first week of classes and should be combined with this outline for course transfer credit.

ACADEMIC AND STUDENT CONDUCT

Information on academic standing and student rights and responsibilities can be found in the current Academic Regulations that are posted on the Student Services/ Admissions & Registration web page.

PLAGIARISM

Plagiarism is a serious academic offence. Plagiarism occurs when a student submits work for credit that includes the words, ideas, or data of others, without citing the source from which the material is taken. Plagiarism can be the deliberate use of a whole piece of work, but more frequently it occurs when students fail to acknowledge and document sources from which they have taken material according to an accepted manuscript style (e.g., APA, CSE, MLA, etc.). Students may use sources which are public domain or licensed under Creative Commons; however, academic documentation standards must still be followed. Except with explicit permission of the instructor, resubmitting work which has previously received credit is also considered plagiarism. Students who plagiarize material for assignments will receive a mark of zero (F) on the assignment and may fail the course. Plagiarism may also result in dismissal from a program of study or the University.

YUKON FIRST NATIONS CORE COMPETENCY

Yukon University recognizes that a greater understanding and awareness of Yukon First Nations history, culture and journey towards self-determination will help to build positive relationships among all Yukon citizens. As a result, to graduate from ANY Yukon University program, you will be required to achieve core competency in knowledge of Yukon First Nations. For details, please see www.yukonu.ca/yfnccr.

ACADEMIC ACCOMMODATION

Reasonable accommodations are available for students requiring an academic accommodation to fully participate in this class. These accommodations are available for students with a documented disability, chronic condition or any other grounds specified in section 8.0 of the Yukon University Academic Regulations (available on the Yukon University website). It is the student's responsibility to seek these accommodations. If a student requires an academic accommodation, they should contact the Learning Assistance Centre (LAC): lac@yukonu.ca.

TOPIC OUTLINE

Anthropology 102 – Introduction to Biological Anthropology	
Week/Chapter	Topic
1/1	Anthropology, Biological Anthropology and the Enlightenment of Empiricism
	Lab Seminar: Biological Anthropology and the Scientific Method
2/2	The Story of Evolution
	Lab 1: Introduction to the Skeleton
3/3	Genetics
	Lab 2: Genetics
Selection of Term Paper Topic	
4/4	Population Genetics
	Lab 3: Inheritance and Forces of Evolution
5/13+14	Human Variation
	Lab 4: Modern Human Variation
6/5	The Primate Order
	Lab 5: Classification and The Living Primates
7/7	Primate Behaviour
	Lab 6: Primate Behavior
8/6	Understanding Deep Time, Geology and Fossils
	Lab 7: Comparative Primate Anatomy
9/8	Primate Origins
	Lab 8: Primate Evolution
10/9+10	Hominin Origins
	Lab 9: Identifying the Human Lineage
11/11	Emergence of Genus Homo
	Lab 10: The Australopithecines and Early Members of the Genus Homo
Term Paper Due	
12/12	Emergence of Modern Humans
	Lab 11: Later Members of the Genus Homo
13	The Last 10,000 years
	Lab 12: Student Paper Discussion
14/15+16	Bioarchaeology, Forensics, Contemporary Applications