

	<p><i>School of Arts &amp; Science</i>  <b>SOCIAL SCIENCES DEPARTMENT</b></p> <p><b>ANTH 260-001</b>  <b>Human Evolution and Diversity</b>  <b>Fall 2011</b></p>
---	--

## COURSE OUTLINE

### 1. Instructor Information

(a)	Instructor:	Brenda Clark, M.A.		
(b)	Office Hours:	Mon/Wed 10:00-11:15 or by appointment		
(c)	Location:	Young 212A		
(d)	Phone:	370-3375		
(e)	Email:	clark@camosun.bc.ca		
(f)	Website:	<a href="http://faculty.camosun.ca/brendaclark">http://faculty.camosun.ca/brendaclark</a>		

### 2. Intended Learning Outcomes

Upon completion of this course the student will be able to:

1. Discuss the evidence and theories for the origin and evolution of the human species.
2. Identify and explain the forces of evolution as applied to human evolution.
3. Explain and analyze the relationship between human biology and culture.
4. Explain why humans belong to the primate order.
5. Explain human biological diversity from the perspective of adaptation.
6. Critically evaluate, from an anthropological perspective, such issues as: the AIDS pandemic, the origin of “diseases of civilization”, “race”, evidence for human origins and evolution.
7. Perform basic human body measurements.
8. Identify basic differences between human and non-human skeletons.
9. Establish a basic biological profile from skeletal remains: age and sex.
10. Solve simple problems in practical genetics: inheritance and pedigree analysis.
11. Recognize the normal human karyotype (chromosome characteristics).
12. Explain why the human species cannot be divided into biological races and that the concept of race is a cultural construct.
13. Apply physical anthropology in addressing problems of the modern world: racism, human health and disease, species extinction.

### 3. Required Materials

- (a) Texts: Keenleyside, Anne and Richard Lazenby (2011) *A Human Voyage: Exploring Biological Anthropology*. Toronto: Nelson Education, Ltd.
- (b) Other: *Lab Manual for Anth 260 Human Evolution and Diversity* available in the Camosun College Bookstore.

(c) On-line article:

Hlodan, Oksana (June 2000) *For Sale: Iceland's Genetic History*. ActionBioscience online article.

<http://www.actionbioscience.org/genomic/hlodan.html>

#### 4. Basis of Student Assessment

(a) **Exams:** there will be 2 exams equally weighted for a total of 55% of your final grade.

Exam 1: written in class, see course outline for date

Exam 2: written during the College's formal exam period.

Exams are not cumulative.

*Please note: students must be available during the College's formal exam period at the end of term. Do not leave town before confirming your exam dates.*

(b) **Labs:** The laboratory part of Anthropology 260 is worth 25% of your final grade to be calculated as follows:

- 10 labs marked out of 10 points each (each lab is worth 1 mark of your total class mark)
- 2 lab quizzes worth 7.5 marks each of your total class mark

**LAB ATTENDANCE IS MANDATORY.** You will be allowed to make up a missed lab with a reasonable excuse. Reasonable excuses do not include: vacations, long weekends, work schedules, poor planning or poor time management on your part. There will be 2 set periods only for make-up labs and extra study for quizzes: days and times to be announced.

Both lecture exams and the lab quizzes must be attempted and passed to successfully complete Anthropology 260. Examinations and quizzes must be written during the scheduled times. In the case of illness, a medical note is required in order to write a make-up exam or quiz. If a student fails to come for a make-up at the scheduled time, the exam will not be further rescheduled unless a medical certificate is presented to the instructor. Unavailability of texts and pressure of other work does not constitute a reason for missing exams or quizzes.

(c) **Assignment: 20%**

Teaching and learning is a shared experience and I invite you to gain some teaching experience by researching a topic relevant to this course and presenting it to your classmates. You will work in teams of two for this assignment. Following your research, you will prepare a 10 minute presentation with visual aids to teach the material to the class. The format and visual aids are up to you: power point presentations, handouts, or posters are some of the possibilities. Following the presentation there will be a 5 minute period for questions or discussion. I will keep a close watch on the time.

Grading is based on four components:

- annotated bibliography,
- presentation (including visual or other teaching aids),
- question/discussion period. Just in case no one has questions, you should come prepared with a question for the audience to provoke discussion.

Note: each student must submit their own annotated bibliography but the team members will submit jointly a copy of the text from their lecture and their power point or other teaching materials.

**Late assignments will not be accepted.**

Choose one of the following presentation topics. You will provide a descriptive annotated bibliography of at least two reliable and recent (the last 5 years) sources for your topic from reputable sources (not encyclopedias and not Wikipedia). You could use newspaper articles, science magazine articles or articles from peer reviewed journals. The sources you find will depend on your topic.

For assistance on writing annotated bibliographies, check out this website: [http://www.library.mun.ca/guides/howto/annotated\\_bibl.php](http://www.library.mun.ca/guides/howto/annotated_bibl.php). Use the APA citation format.

Sign up for the topic of your choice (first come, first served) by September 16.

**Topics:** presented in the relevant lecture period.

Chimpanzee hunting - Week 5

*Ardipithecus ramidus* – Week 7

Evolution of human language – Week 9

Human occupation of the Americas (biological perspective) – Week 10

Neanderthal genome -Week 10

Lactose intolerance in human populations – Week 11

The use of stable isotopes in biological anthropology – Week 12

Ethics in studying human skeletal remains from archaeological sites – Week 12

Children as indicators of population health (include Canada) – Week 14

**Applied anthropology topics:** These topics address how theory and expertise in biological anthropology can be applied to real world problems. They will be presented in Week 13. If we run out of time, we can continue in Week 14.

Forensic anthropology: Pickton Farm

Forensic anthropology: human rights violations (case study)

Reproductive technology (e.g. ‘designer babies’)

Obesity

Use of cosmetic treatments (nose jobs, epicanthic eye fold removal, etc)

Primate conservation

Ergonomics

## 5. Grading System

### Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D	Minimum level of achievement for which credit is granted; a course with a "D" grade cannot be used as a prerequisite.	1
0-49	F	Minimum level has not been achieved.	0

### Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy E-1.5 at [camosun.ca](http://camosun.ca) for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that, due to design may require a further enrollment in the same course. No more than two IP grades will be assigned for the same course. (For these courses a final grade will be assigned to either the 3 <sup>rd</sup> course attempt or at the point of course completion.)
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.

## 6. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

### LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College calendar, at Student Services or the College web site at [camosun.ca](http://camosun.ca).

### STUDENT CONDUCT POLICY

There is a Student Conduct Policy **which includes plagiarism**. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, at Student Services and on the College web site in the Policy Section.

## 7. Class sequence

WEEK	Lecture and Readings Wednesday	Lab Schedule Friday
1 Sept 6-9	Class registration and course outline. Introduction to Biological Anthropology <u>Readings:</u> Ch 1	No lab.
2 Sept 12-16	Science and Evolutionary Theory Anthropology and DNA Ethics of Genetic Research <u>Readings:</u> Ch 2 and Ch 3 <u>On-line article:</u> "For Sale: Iceland's Genetic History"	Genetics 1: Heredity
3 Sept 19-23	Forces of Evolution Epigenetics <u>Readings:</u> Ch 4	Genetics 2: Evolution
4 Sept 26-30	The Order Primates <u>Readings:</u> Ch 5	Human Osteology 1
5 Oct 3-7	Primate Behaviour <u>Readings:</u> Ch 6	Human Osteology 2
6 Oct 10-14	Palaeoanthropology and Primate Evolution <u>Readings:</u> Ch 7	Age and Sex Estimation from the skeleton
7 Oct 17-21	What is a Hominin? Hominin Origins <u>Readings:</u> Ch. 8 and 9	<b>LAB QUIZ 1</b>
8 Oct 24-28	<b>Exam 1 (covers Week 1-6)</b>	Comparative Primate Anatomy
9 Oct 31- Nov 4	The Genus <i>Homo</i> <u>Readings:</u> Ch 10	Living Primates: Primate Classification and Behaviour
10 Nov 7-11	Neanderthals and Modern Humans: close encounters in the late Pleistocene <u>Readings:</u> Ch 11 and 12	<b>REMEMBRANCE DAY</b>
11 Nov 14-18	Modern Human Diversity <u>Readings:</u> Ch 13	Human Evolution 1
12 Nov 21-25	Biology of Past and Present Populations <u>Readings:</u> Ch 14	Human Evolution 2
13 Nov 28- Dec 2	Applied Biological Anthropology presentations	Modern Human Variation
14 Dec 5-9	Wrap-up course <u>Readings:</u> Ch 16	<b>LAB QUIZ 2</b>