

**Anthropology 2110  
Biology of Human Variation  
Fall 2014**

Professor: Dr. Tamara Varney

Location: AT2001

Lecture time: Tues 7-10

Phone: 807-343-8204

Office: Braun Building 2001D

Email: [tvarney@lakeheadu.ca](mailto:tvarney@lakeheadu.ca)

Office Hours: Wed 2-4pm until Oct 15 then *by appointment*\*\*(*if its more convenient feel free to set an appointment time*) OR you can phone, email or drop in anytime to see if I am free – just be prepared to come at another time if I am busy with something I cannot interrupt

*I cannot guarantee that I will respond in a timely fashion if messages are left on my voice mail rather than email and students should NOT expect less than **24 hour** turnaround time to email messages.*

*Please DO NOT assume that your message, voice or email, has been received unless you receive an acknowledgement.*

**Course Description:**

This course focuses on human microevolution. Topics include evolutionary theory, the genetic background of human variation, the distribution of human variation, human adaptability, and the role of disease and other influences on human evolution.

**Required Textbook:** (available at the University Bookstore)

Mielke JH, Konigsberg LW and Relethford JH. 2011. Human Biological Variation.

2<sup>nd</sup> Edition. Oxford University Press. ISBN 13: 978-0-19-538740-7

**Also see the course Desire2Learn (D2L) site (look in MyCourseLinks on the LU website) for additional resources.**

**Evaluation:**

Your final grade will be based on:

Term Test 1	25%	Oct 21
Term Test 2	30%	Nov 18
Final Exam	45%	Final examination period – Dec 4-17 **Note exam contingency date is Dec 18.

Please note that **Tues, November 4, 2014** is the last date for withdrawal without academic penalty from this course. Students should have received feedback on 25% of the course mark by that date.

Missed tests will not be made-up unless official documentation of a reasonable excuse is submitted (e.g. student or family illness, death of family member, car accident). Please note that that going off on holidays or leaving early at the end of term (Winter Break) OR similar do not constitute reasonable excuses. Please contact me within 48 hrs. of any missed due date or test for **ANY** reason. In case of snowstorm, hwy closures and warnings – these are acceptable and verifiable reasons to miss class – but again, *contact me ASAP*.

Students are strongly advised to familiarize themselves with the Student Code of Conduct

(<http://policies.lakeheadu.ca/policy.php?pid=60>) with regard to both academic and non-academic misconduct.

Non-compliance will NOT be tolerated in this course and the code will be adhered to in terms of disciplinary action.

**Tentative Class schedule:**

<b>Week</b>	<b>Date</b>	<b>Topic</b>	<b>Text/Reading</b>
1	Sept 9	History of Study: Human Variation	ch 1
2	Sept 16	Genetic Basis of Human Variation	ch 2, 3
3	Sept 23	Inheritance of simple traits: blood group and polymorphisms	ch 4, 8
4	Sept 30	Inheritance of simple traits 2: plasma proteins, RBC enzymes, HLA	5, 6
5	Oct 7	Inheritance of simple traits 3: Hemoglobin variants and DNA Markers	7, 9
6	Oct 14	Epigenetics - film – <i>Ghost in the Genes</i>	tba
7	<b>Oct 21</b>	<b>Term test #1 – approx 2 hr</b>	
8	Oct 28	Traits of Complex Inheritance & their adaptations I: introduction, anthropometrics, growth and development	10, 11 to p. 280
9	Nov 4	Traits of Complex Inheritance & their adaptations II: environmental adaptations	11 from p 280, 12
10	Nov 11	Population Structure & History; Changing Dimensions of the Human Species: Demographic and Epidemiological Transitions	13
11	<b>Nov 18</b>	<b>Term test #2 – approx 2 hr</b>	
12	Nov 25	Human Variability and Behaviour	14
	<b>Dec 4-17 Final Exam Period</b>	<b>Final Exam</b>	

\*\* Note: *if necessary*, a brief lecture may be given following tests