

ANTH 2110 FDE 2023
Biology of Human Variation

Professor: Dr. Tamara Varney

Location: Zoom

Class time: Tues & Thurs 5:30-7pm

Email: tvarney@lakeheadu.ca

Office Hours: by appointment only

Course Website: Accessed via myCourseLink

LU website 'Quicklinks' (top right corner), 'For Students' > myCourseLink

Lecture slides, quizzes, and other materials will be posted.

Be sure to check the Announcements there each week too.

Email will be the primary means of communication.

Students should not expect less than 24 hour turn-around time to email. Please do not assume that your message has been received unless you receive an acknowledgement.

Lakehead's Accommodation & Confidentiality Statements:

Lakehead University is committed to achieving full accessibility for persons with disabilities/medical conditions. Part of this commitment includes arranging academic accommodations for students with disabilities/medical conditions to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a disability/medical condition and think you may need accommodations, you are strongly encouraged to contact Student Accessibility Services (SAS) and register as early as possible. For more information, please email sas@lakeheadu.ca or visit <https://www.lakeheadu.ca/faculty-and-staff/departments/services/sas>

In **ANTH 2110 FDE**, in the context of remote instruction and participation, video and audio recordings of most class activities will be made to ensure students' and instructors' easy and comprehensive access to those activities. The recordings are confidential and are intended only for the use of the course students and instructors. They may otherwise not be used or disclosed. During recording, to protect others' privacy, each student should ensure that no one else is present in the location where they are being recorded without that non-student's consent. The recordings are made under the authority of sections 3 and 14 of *The Lakehead University Act, 1965*. Questions about the collection of the images and sounds in the recordings may be directed to Dr. Todd Randall (Dean, Faculty of Science and Environmental Studies), todd.randall@lakeheadu.ca, 807-343-8289.

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. Ignorance of the code is not a reasonable justification for any violation of the code.

Course Description:

This course focuses on human microevolution. Topics include social perspectives of human variation and consequences of the perspectives, 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- <https://bookstore.lakeheadu.ca/> - click Textbooks in the left hand menu then search in Distributed Learning



Saini, Angela. 2019. Superior: the return of race science. Beacon Press. Boston.

Available from LU bookstore in paperback (\$22)

Recommended text:

Mielke JH, Konigsberg LW and Relethford JH. 2011. Human Biological Variation. 2nd 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.

Other readings and resources (weekly checklists/to do lists) will be posted on the course site weekly.

Evaluation:

Your final grade will be based on:

Assignment 1	5%	ASAP (before Sept 21)
Participation	10%	
Weekly Quizzes	40% (8x5%)	see schedule below
Midterm Test	20%	Oct 19
Final Exam	25%	Final examination period – Dec 7-17 **Note exam contingency date is Mon Dec 18.

Quizzes (total 40%) and the midterm test (20%) are multiple choice and various short formats. They will be available for you to take anytime within a 24 hour period and the average duration will be 30min. The midterm will be 2 hours long. The **Final Exam** (25%) will be similar in format and length to the midterm and will be scheduled by the Registrar – the time table is generally available in early to mid Oct.

Quizzes are ‘timed’ and administered on MyCourseLink and will relate to the previous week’s course material. Students will have one-time window/opportunity to take the test and if you take too long looking up the correct answers you will likely ‘time out’ before completion. So be honest and study.

Both the Midterm and Final Exam will be cumulative in nature.

NOTE: All quizzes, tests, and exams will be timed and you must focus on completing them. There is not time for looking things up etc so be sure to be ready and focused when you take the quiz.

Please note that **Fri, November 4, 2022** is the last date for withdrawal without academic penalty from this course. Students should have received feedback on at least 25% of the course mark by that date.

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Missed tests & assignment deadlines 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 OR similar do NOT constitute reasonable excuses. Please contact me within **48 hrs.** of any missed due date or test for **ANY** reason. – *contact me ASAP.*

Assignment Deadlines / Late Penalties

A deduction of 5% will be made for every day that an assignment is late without prior approval of the instructor. No late assignments will be accepted past 1 week of the original deadline. So if you are late contact me ASAP so we can see if your reason for tardiness is reasonable.

Use of AI

Generative artificial intelligence (Generative AI or GenAI) is a category of AI systems capable of generating text, images, or other media in response to prompts. These systems include ChatGPT and its variant Bing (built by OpenAI) and Bard (built by Google) among several others. Other Generative AI models include artificial intelligence art systems such as Stable Diffusion, Midjourney, and DALL-E. **Any use of GenAI systems to produce assignments for this course is not permitted.** All work submitted for evaluation in this course must be the student's original work. The submission of any work containing AI generated content will be considered a violation of academic integrity ("Use of Unauthorized Materials").

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Plagiarism definition from the **Student Code of Conduct – Academic Integrity** – “Presenting another’s ideas or phrasings as one’s own without proper acknowledgement. Examples include: copying and pasting from the internet, a printed source or other resource without proper acknowledgement; copying from another student OR a test key, whether past or present; using direct quotations or large sections of paraphrased material in an assignment without proper acknowledgement; submitting the same piece of work in more than one course without the permission of the instructor(s)”

Participation (10%)

Every week during the term will connect with a different chapter in the text. I will post information on that week's topic on Mondays. In addition to reading the chapter in 'Superior', you will need to also read articles and watch video clips that I will provide for you. You will then answer the question posed in the discussion board.

Discussion board:

Full marks will be achieved if you create a minimum of EIGHT (8) original posts (3-4 sentences) and comment on at least TWO (2) posts by classmates throughout the period of the course. The deadline for all the comment posts is the final day of class – but it would be foolish to put them off – get started as soon as possible before the term gets busy. I will provide the initial question, which will be connected to the topic for that week. Please be thoughtful and kind when responding to the posts of your classmates. You have been randomly placed in small discussion groups to facilitate discussion. And a friendly reminder no use of any sort of AI is allowed.

Study Tutorials: it has been my practise in past years to hold some supplementary but highly recommended, out of class time pre-midterm test and final exam tutorials upon request. These are held as long as they are requested by students at least 2 weeks prior to the exam and they will be scheduled around the availability of the majority of those interested. Which means → more than one may be held in the week before a test to accommodate as many students as possible. These are meant to be *interactive* – students bring the topics and questions they wish to explore.

There are review sessions scheduled in class time as well but students often want/need more closer to exam time. All review sessions are meant to be interactive and will not be recorded.

Tentative Class schedule:

Week	Date	Topic	Reading
1	T Sept 5	Introduction to the Course	
	Th Sept 7	History of Study: Human Variation	See D2L & CO
2	T Sept 12	Genetic Basis of Human Variation	See D2L & CO
	Th Sept 14	Genetic Basis of Human Variation II; Quiz 1	See D2L & CO
3	T Sept 19	Inheritance of simple traits: blood groups and polymorphisms	See D2L & CO
	Th Sept 21	Inheritance of simple traits: blood group and polymorphisms II; Quiz 2; Aim certificate (Assignment 1 last day for submission)	See D2L & CO
4	T Sept 26	Inheritance of simple traits I: plasma proteins, RBC enzymes, HLA	See D2L & CO
	Th Sept 28	Inheritance of simple traits II: plasma proteins, RBC enzymes, HLA; Quiz 3	See D2L & CO
5	T Oct 3	Inheritance of simple traits 3: DNA Markers	See D2L & CO
	Th Oct 5	Inheritance of simple traits 3: Hemoglobin variants; Quiz 4	
6	M Oct 9 F Oct 13	THANKSGIVING & FALL BREAK WEEK – NO CLASS	
7	T Oct 17	MIDTERM REVIEW	
	Th Oct 19	MIDTERM	
8	T Oct 24	Epigenetics - film – Ghost in the Genes – watch and do suggested readings	See D2L & CO
	Th Oct 26	Epigenetics II; Quiz 5	See D2L & CO
9	M Oct 31	Traits of Complex Inheritance & their adaptations I: introduction, anthropometrics, growth and development	See D2L & CO
	W Nov 2	Traits of Complex Inheritance & their adaptations II: environmental adaptations; Quiz 6	
10	M Nov 7	Population Structure & History; Changing Dimensions of the Human Species: Demographic	See D2L & CO

		and Epidemiological Transitions	
	W Nov 9	Population Structure & History; Changing Dimensions of the Human Species: Demographic and Epidemiological Transitions II; Quiz 7	See D2L & CO
10	M Nov 14	Human Variability and Behaviour I	See D2L & CO
	W Nov 116	Human Variability and Behaviour II Quiz 8	See D2L & CO
10	M Nov 21	TBA; Practice Final Exam Available	See D2L & CO
	W Nov 23	TBA	See D2L & CO
11	M Nov 28	FINAL EXAM REVIEW	
	W Nov 30	FINAL EXAM REVIEW	
	Dec 7-17	Final Exam – to be scheduled by Registrar ++ Note - contingency date is Dec 18th ^t	