

2. Prerequisites: While I will briefly cover molecular genetics and the inheritance of simple (Mendelian) traits, you should have a basic understanding of these topics prior to taking this course. If you are concerned about this, please see or contact me during the first week of classes.

3. Reading: reading assignments will be found both in the text book, Kormondy & Brown, 1998. *Fundamentals of Human Ecology*, and online in the “Course Documents” section of the class Blackboard site. In addition, there are several recommended readings. The recommended readings are not required, they are provided to enhance your knowledge of the subject in question. Keep in mind that *you are not finished with the reading assignment until you thoroughly understand it*. This will sometimes require you to read an assignment more than once. An effective way of ensuring comprehension is to read the assignment then go back through it and summarize its main points in your notebook.

4. Evaluation: You will be evaluated based on your performance on **three mid-term exams** (multiple choice and short answer) and **take-home, short-answer questions** assigned during the semester. Prior to each exam I will hand out a list of key terms and concepts that will be covered on the exams. In preparing for each exam, you should not define each key term in isolation; rather, define and understand it in relation to the other key terms within the context of the course.

You must provide advance notice to the instructor if you are unable to take an exam. All requests for deferral of an examination due to health reasons must be accompanied by written documentation as outlined in the University Calendar and should be obtained while the student has the physical or emotional problem rather than after recovery. Deferred exams may be allowed in the following circumstances: illness, domestic affliction or religious conviction. If you have missed an exam for a legitimate reason, you will be able to write a “make up” exam as close to the original exam as possible. The date and location will be at the convenience of the Archaeology Department. Travel arrangements and misreading of the syllabus are **not** valid reasons for requesting a deferred exam. Deferred exams and take-home, short-answer questions will not be granted if it is determined that just cause is not shown by the student.

Please note that requests to defer term work past the end of a term go through the Undergraduate Programs Office (UPO) and must be processed by the deadlines that are established in the U. of C. Calendar. You can find the forms you need at: Deferred Term Work Form: <http://www.ucalgary.ca/registrar/files/registrar/defTW.pdf> . You must submit these deferral forms to the Social Sciences Associate Dean (Students) through the UPO office: Undergraduate Programs Office, 4th Floor, MacEwan Student Centre. To make an appointment with the Associate Dean, phone (403) 220-8155. Only the Associate Dean approves requests for deferrals which extend beyond the end of a term. Instructors are not involved in such decisions.

Your final grade will be calculated as follows:

Mid-Term Exam #1:	_____	35%
Mid-Term Exam #2:	_____	35%
Mid-Term Exam #3:	_____	10%
Short Answer Assignments (Questions on Readings)	_____	20%

Letter grade assignment: At the end of the course, the numerical marks will be summed and a final letter grade will be assigned based on the following basis:

Percentage range	Letter grade	Percentage range	Letter grade
95 or higher	A+	68-72	C+
90-94	A	64-67	C
85-89	A-	59-63	C-
81-84	B+	54-58	D+
77-80	B	50-53	D
73-76	B-	49 or lower	F

5. Retrieving Assignments: The Freedom of Information and Protection of Privacy (FOIP) legislation disallows the practice of having students retrieve assignments from a public place, e.g., outside an instructor’s office or the Department main office. Term assignments must be returned to students individually, during class, or during the instructor’s office hours; if a student is unable to pick up her/his assignment s/he may provide the instructor with a stamped, self-addressed envelope to be used for the return of the assignment.

6. Office Hours: I enjoy having visitors during my office hours and am happy to schedule additional times as necessary. These hours are yours and I encourage you to take advantage of them, whether you are having difficulty with some aspect of the course, or if you would like to discuss in greater detail something that was touched on in class.

7. E-mail: Students are encouraged to use the lectures and office hours to ask questions. For after-hours questions, the use of email is acceptable. Please write ‘ARKY 305’ in the ‘Subject’ portion of the email. The instructor and teaching assistant receive numerous e-mails everyday. By clearly identifying the subject of your email, you will help us reply more efficiently to your emails. If the instructor or teaching assistant thinks that your question and related answer is of general interest, they may decide to post them on the course Blackboard space (your name will not appear). Note that while we will do our best to reply to your message as soon as possible, we will generally not be able to do so on weekends or holidays. Overall, we attempt to reply to all messages within four days.

8. Writing Across the Curriculum: Writing skills are not exclusive to English courses and, in fact, should cross all disciplines. The University supports the belief that throughout their University careers, students should be taught how to write well so that when they graduate their writing abilities will be far above the minimal standards required at entrance. Consistent with this belief, students are expected to do a substantial amount of writing in their University courses and, where appropriate, instructors can and may use writing and the grading thereof as a factor in the evaluation of student work. The services provided by the Writing Centre in the Effective Writing Office can be utilized by all undergraduate and graduate students who feel they require further assistance.

9. Academic Accommodation Policy: The purpose of academic accommodation is to provide students with documented disabilities equal opportunity to master the essentials of a post-secondary education. Students with disabilities at the University of Calgary have met all admission requirements but may have done so with the use of accommodations. Similarly, they are expected to meet all academic and non-academic requirements. Adaptive technology and other academic accommodations do not relieve students of their responsibility to develop the essential skills and abilities expected of all students.

Please refer to the following web link for detailed information: <http://www.ucalgary.ca/drc/node/71>

10. Disability Resource Centre Accommodations: It is the responsibility of the student to request academic accommodations. If you are a student with a documented disability who may require academic accommodation and have not registered with the Disability Resource Centre, please contact their office at (403)220-8237.

Students who have not registered with the Disability Resource Centre are not eligible for formal academic accommodation. Students are also required to discuss their needs with the instructor no later than fourteen (14) days after the start of the course.

11. Academic Misconduct: Academic dishonesty is an unacceptable activity at the University of Calgary and students are **strongly advised** to read the Student Misconduct section of the University Calendar. Quite often, students are unaware of what constitutes academic dishonesty or plagiarism. The most common are:

- 1) Presenting another student's work as your own
- 2) Presenting an author's work or ideas as you own without proper referencing
- 3) Using work completed for another course

This activity will not be tolerated and students conducting themselves in this manner will be dealt with according to the procedures outlined in the University Calendar.

For detailed information on what constitutes academic misconduct, please refer to the following link: <http://www.ucalgary.ca/pubs/calendar/current/k-2-1.html>

12. Electronic devices: Students in this course are not allowed to use any portable electronic devices, other than a calculator, in class.

13. Human research: Students will be not be expected to conduct research on themselves or others in this course.

14. Supplemental fees: There are no mandatory supplemental fees for this course.

Schedule¹

Date		Topic	Readings ^{2*}
1	Jan. 10	hate crimes, anthropology, science as a way of knowing	Sagan (Scientists' Tools), CBC hate crimes reading, Kristof
2	Jan. 12	History of the race concept: Morton, Social Darwinism, origins of the race concept	Marks (Black, White..); and <i>either</i> Akpan <i>or</i> Wiesel
3	Jan. 17	History of the race concept: Linnaeus, Buffon & Physical Anthropology, Why rejection of race concept?	SSRC (Is Race Real?)
4	Jan. 19	History of the race concept: Why the rejection of race concept? (cont.)	Ehrlich & Holm (Bio. View of Race)
5	Jan. 24	Genetic variation: human genetic diversity & sources of genetic variation	Cummings (Mutation); Lewis (Extensions & Exceptions); Rennie (Grading Gene Tests)
6	Jan. 26	Patterns of Inheritance: simple & complex traits	Groopman (Decoding Destiny); Lewis (Complex Traits)
7	Jan. 31	Complex traits: IQ, intelligence & heritability	Jones (Calliban's Revenge)
8	Feb. 2	Complex traits: IQ, intelligence & heritability	Lewontin (Mental Traits)
9	Feb. 7	Complex traits: sex determination	Lewis (Matters of Sex), Fausto-Sterling (5 Sexes)
10	Feb. 9	Mid-Term Exam #1	
11	Feb. 14	Complex traits: gender roles	Kraemer 2000
12	Feb. 16	Complex traits: gender roles	Sapolsky & Infinite Mind: ³ - Educating Dick and Jane
--	Feb. 21 & 23	Reading Break – no classes	
13	Feb. 28	Human population biology: origins, theory, levels of adaptation	K & B ⁴ Ch. 1 & 6
14	Mar. 1	Climatic stress & human variation: solar stress, thermal stress	Loomis
15	Mar. 6	Climatic stress & human variation: thermal stress (cont.)	K & B Pp. 131—149
16	Mar. 8	Adaptation to thermal stress: heat and cold	K & B Pp. 149—161
17	Mar. 13	Adaptation to malnutrition: requirements	K & B Pp. 186—202, Nutrition Handout
18	Mar. 15	<i>Remembrance Day / Reading Days (no class)</i>	
19	Mar. 20	Adaptation to malnutrition: variation in susceptibility to starvation	K & B Pp. 202-204; Brown & Konner (Anthro & Obesity)
20	Mar. 22	Adaptation to Hypoxia	K & B Pp. 162-173 & Hypoxia Handout (Beall's work)
21	Mar. 27	Mid-Term Exam #2	
22	Mar. 29	Adaptation to Infectious Disease	K & B pp. 204-224, Barnes (Disease & Human Evolution)
23	Apr. 3	Adaptation to Infectious Disease	Dugger & McNeil (Polio), Kolata (plaque & HIV)
24	Apr. 5	Population Ecology: terms & concepts in demography	K & B Ch. 4 and Ch. 5
25	Apr. 10	Population Ecology: 4 evolutions in pop. growth, HIV & pop. growth rate, demographic transition.	This American Life (podcast): "Words"
26	Apr. 12	Mid-Term Exam #3	

¹ Note, the schedule of topics may change, but the exam dates will not.

² All readings, other than those in the Kormondy & Brown (K & B) textbook are posted on the course blackboard site in the "Course Documents" section. For a detailed bibliography of the readings, please see pages 5-6 below. The reading assignments are subject to change should I find, during the present semester, more recent publications which better cover the topic considered. If this occurs, I will inform you no later than 2 weeks prior to the relevant class.

³ These are radio programs. See the bibliography below under "Infinite Mind" for details on locating these programs.

⁴ K & B = Kormondy & Brown's *Fundamentals of Human Ecology*.

Readings

These readings are available in the Course Documents section of the Blackboard Site or elsewhere online.
(Note, this bibliography does NOT include readings from the Kormondy and Brown text.)

Akpan, Uwem (2008) *Say You're One of Them*. Hachette Book Group. New York. (While the entire book is appropriate for this course, the reading assignment only covers the book's last chapter: "My Parent's Bedroom").

Barnes, Ethne. 2005. *Diseases and Human Evolution*, University of New Mexico Press. Chapter 2: The war between microbes and men. Pp. 9-26.

Brown, P.J. and M. Konner. 1987. An anthropological perspective on obesity. *Annals of the New York Academy of Sciences*. Vol. 499. Pp. 29-46.

CBC News Online. 2004. Indepth: Hate Crimes – What is a hate crime?
<http://www.cbc.ca/news/background/hatecrimes/> Accessed 23 December 2008.

Cummings, Michael R. 2006. Mutation: the source of genetic variation. In *Human Heredity: Principles and Issues*. Seventh Edition. Thompson Publishing. USA. Pp. 244-264..

Dugger and McNeil 2006. On the brink: Polio – A fragile immunity – Rumor, fear, and fatigue hinder final push to end polio. *New York Times* (20 March 2006)

Erhlich, Paul R. and Richard W. Holm 1964. A biological view of race. In *The Concept of Race* Ashley Montagu, editor. Collier Books, London: pp. 154-179.

Fausto-Sterling, Anne. 1993. The five sexes. *The Sciences*. March/April 1993.

Groopman, Jerome 1998. Decoding Destiny. *New Yorker*. February 9, 1998. Pp. 42-47.

Infinite Mind (<http://www.lcmedia.com/mindprgm.htm> scroll down the page to the shows described here)
"Educating Dick and Jane" (2008) (This is **required**.)

We'll look at the latest science about how boys and girls learn, the similarities and differences. Host Dr. Fred Goodwin is joined by Louann Brizendine MD, Director of the Women's Mood and Hormone Clinic of the University of California at San Francisco, and author of the book "The Female Brain," who details how the less than 1% difference in genetic coding influences stark differences between how boys and girls learn. Plus, a special report on single sex schools. How well do they work? And "news you can use" for parents from leading child psychiatrist Stanley Greenspan about tailoring the learning environment to the strengths of the child.

"Women and Mental Illness" (2007) (This is **optional** listening.)

Women are more likely to have clinical depression, anxiety, and eating disorders. And their roles - particularly as mothers – can further compound their mental health problems. This program explores both the biological and social forces shaping women's experience of mental illness. Guests include Charlotte Willis, a mother and participant in the Thresholds Mothers Program, Rush Medical College professor of psychiatry Nada Stotland, documentary maker and women's studies professor, Allie Light, and Harvard University psychiatrist Lee Cohen.

SSRC. 2005. Is Race Real? (<http://raceandgenomics.ssrc.org/>)

Assigned readings include:

Leroi, Armand Marie 2005. A Family Tree in Every Gene. *New York Times*. Published March 14. p. A23. (<http://raceandgenomics.ssrc.org/Leroi/>)

- **and 1** of the following 4 papers (you choose)

- Goodman, Alan. 2005. Two Questions About Race.
- Graves, Joseph L. 2005. What We Know and What We Don't Know: Human Genetic Variation and the Social Construction of Race
- Kaufman, Jay S. 2005. Anatomy of a Medical Myth
- Lewontin, R. C. 2005. Confusions About Human Races

Jones, Steve. 1993. Caliban's Revenge. In *The Language of Genes*. Anchor Books, NY. Pp. 182-196.

- Kolata, G 1998. Scientists probe the genetic mysteries of a pair of deadly plagues. *New York Times*
- Kraemer, Sebastian 2000. The fragile male. *British Medical Journal* 321:1609-1612.
- Kristof, Nicholas D 2009. Learning How to Think, *New York Times*, 26 March.
- Lewis, Ricki. 2006. Complex Traits. In *Human Genetics*. McGraw-Hill..
- Lewis, Ricki. 2006. Matters of Sex. In *Human Genetics*. McGraw-Hill. .
- Lewis, Ricki. 2006. Extensions and exceptions to Mendel's laws. In *Human Genetics*. McGraw-Hill.
- Lewis, Ricki. 2006. Mendel's laws. In *Human Genetics*. McGraw-Hill. (*This is **an optional reading**, for review of inheritance of simple (Mendelian) traits, if necessary*).
- Lewontin, Richard. 1982. Mental Traits. In. *Human Diversity*. WH Freeman, New York. Chapter 7.
- Loomis, WF. 1970. Rickets. *Scientific American* Vol. 223. June. Pp. 77-91.
- Marks, Jonathan 1994. Black, White, Other. *Natural History*. Pp. 32-35.
- Molnar, Stephen 1998. *Human Variation*. Prentice-Hall, New Jersey. Pp. 34-71. *This paper is not in the reading packet, but is on reserve in MacKimmie Library and in the Archaeology Library (ES 810) (This is an optional reading, for genetics review, if necessary.)*
- Rennie, John. 1994. Grading the gene tests. *Scientific American*. Pp. 88-97.
- Sagan, Carl 1995. **The Demon-Haunted World: Science as a Candle in the Dark** *Science as a Candle in the Dark*, Random House / Ballantine Books (section on Scientists' Tools for Skeptical Thinking – available on class blackboard site).
- Sample Informed Consent Form for the Huntington's Disease Direct Genetic Test, from <http://www.hdfoundation.org/testread/hdsatest.htm>, 6 January 2001
- Sapolsky, Robert M. 1997. The Trouble with Testosterone. In: *The Trouble With Testosterone and Other Essays on the Biology of the Human Predicament*. Simon & Schuster, NY. Pp. 147-159.
- Special Pathogens Branch. 2002. Ebola hemorrhagic fever information packet. Centers for Disease Control and Prevention. Atlanta, GA.
- This American Life (Podcast) 2002. "Words" <http://www.thisamericanlife.org/radio-archives/episode/204/81-Words>
- Wiesel, Elie. 1958. *Night*. Bantam Books. New York. (pages 1 - 43)

ADDITIONAL CONTENT OF THE COURSE OUTLINE

Freedom of Information and Protection of Privacy Act

The University of Calgary is committed to protecting the privacy of individuals who work and study at the University or who otherwise interact with the University in accordance with the standards set out in the Freedom of Information and Protection of Privacy Act.

Please refer to the following link for detailed information:

<http://www.ucalgary.ca/secretariat/system/files/foip%20overview.pdf>

Plagiarism

Plagiarism involves submitting or presenting work as if it were the student's own work when it is not. Any ideas or materials taken from another source written, electronic, or oral must be fully and formally acknowledged. Plagiarism includes but is not limited to:

- (a) The work submitted or presented was done, in whole or in part, by an individual other than the one submitting or presenting the work (this includes having another impersonate the student or otherwise substituting the work of another for one's own in an examination or test),
- (b) Parts of the work are taken from another source without reference to the original author,
- (c) The whole work (e.g., an essay) is copied from another source, and/or,
- (d) A student submits or presents work in one course which has also been submitted in another course (although it may be completely original with that student) without the knowledge of or prior agreement of the instructor involved.

While it is recognized that scholarly work often involves reference to the ideas, data and conclusions of other scholars, intellectual honesty requires that such references be explicitly and clearly noted. Plagiarism is an extremely serious academic offence.

It is recognized that clause (d) does not prevent a graduate student incorporating work previously done by him or her in a thesis or dissertation.

Emergency Evacuation Assembly Points

In the event of an emergency that requires evacuation, please refer to the following link to become familiar with the assembly points for the class: <http://www.ucalgary.ca/emergencyplan/assemblypoints>

Safewalk Information

Campus Security, in partnership with the Students' Union, provides the Safewalk service, 24 hours a day to any location on Campus including the LRT, parking lots, bus zones and University residences. Contact Campus Security at (403) 220-5333 or use a help phone, and Safewalkers or a Campus Security Officer will accompany you to your campus destination.

Faculty of Arts Program Advising and Student Information Resources

- Have a question, but not sure where to start? The new Faculty of Arts Program Information Centre (PIC) is your information resource for everything in Arts! Drop in at SS110, call us at 403-220-3580 or email us at artsads@ucalgary.ca. You can also visit the Faculty of Arts website at <http://arts.ucalgary.ca/undergraduate> which has detailed information on common academic concerns.
- For program planning and advice, contact the Student Success Centre (formerly the Undergraduate programs Office) at (403) 220-5881 or visit them in their new space on the 3rd Floor of the Taylor Family Digital Library.
- For registration (add/drop/swap), paying fees and assistance with your Student Centre, contact Enrolment Services at (403) 210-ROCK [7625] or visit them at the MacKimmie Library Block.

Contact Information for Student and Faculty Representation

Student Union Vice President – Academic

Phone: (403) 220-3911

Email: suvpaca@ucalgary.ca

Student Union Faculty Representative

Phone: (403) 220-3913

Email: socilscirep@su.ucalgary.ca

Student Ombudsman's Office

<http://www.su.ucalgary.ca/services/student-services/students-rights.html>

Students Union Representatives for the Faculty of Arts

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