Instructor: Jean-Baptiste Leca
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Office: C880 (University Hall)
Office Hours: Tuesdays from 1:00 – 3:00 pm or by appointment
Teaching Assistant: Chinthaka Kaluthota (kaluthota@uleth.ca)

Class Time: Mondays from 6:00 – 8:50 pm (+ Wednesday, April 15th from 6:00 – 8:50 pm)
Classroom: L1060
Prerequisites: Psyc 2330 (Learning and Cognition) and at least one other 2nd year course in Psychology

General content and objectives:
In social science and humanities circles, culture is often considered a hallmark of humanity. This belief reflects a broader philosophical position that humans differ \textit{in kind} from the rest of the natural world. But is this really so? Many highly complex human traits did not arise \textit{ex nihilo} and, as such, have evolutionary histories that are amenable to comparative analysis. Numerous studies on animals demonstrate that culture is no different in this regard. Without question, human culture is distinctive, but a comparative approach to understanding its building blocks promises to illuminate how such an emergent trait links us to the rest of the animal kingdom as opposed to setting us apart.

The overarching goal of this course is to understand how and why humans and nonhuman animals innovate, learn in a social context, and generate culturally transmitted information, behaviour, and artefacts. This course will provide some elements of answers to the following questions (among others): How do we define and measure innovation, social learning, behavioural tradition, and culture? What are the determinants of behavioural innovation? What are the different forms of social learning? Are some of them unique to humans? How and why do human and nonhuman cumulative cultures differ? What can cultural learning tell us about the mechanisms and evolution of cognition? What is the adaptive significance of cultural learning? What is the source of the debate over animal culture, and how (at least some of) these controversial issues could be resolved? Why are these questions of any interest in our understanding of hominin evolution in general, and the emergence of modern human culture in particular?

The list of topics addressed in this course includes:
- Introduction to innovation, social learning, behavioural tradition, and culture
- Innovations: determinants and constraints on their diffusion and maintenance
- Social learning mechanisms
- Social learning strategies
- Methods for studying social learning and culture
- Social learning across animal taxa
- Cumulative culture
- Biological bases and cognitive implications of cultural learning
- Adaptive significance of cultural learning
- Theoretical approaches to cultural evolution
Lecture materials and required readings:

There is no textbook for this course. The lecture materials will consist of:
(1) Powerpoint slides (one series per topic, available on Moodle) highlighting key theoretical concepts, methodological aspects, and providing detailed examples of selected case studies;
(2) Several academic journal articles (either data-based papers or review articles). In general, the readings will be more conceptual, as opposed to empirical and data-rich, in scope;
(3) I will also play several videos in class to illustrate specific points.

Evaluation: Each student will be evaluated on the basis of: (1) three exams, (2) one paper assignment, and (3) one oral group presentation.

(1) Exams (format: in-class written-format exams with multiple choice, matching, and/or short answers):
   - Exam #1 – 20% of your final grade (scheduled on Feb. 9th). This test will only include the lecture materials covered during the first four sessions (Jan. 12th – Feb. 2nd).
   - Exam #2 – 20% of your final grade (scheduled on Mar. 16th). This test will only include the lecture materials covered during the next three sessions (Feb. 23rd – Mar. 9th).
   - Exam #3 – 30% of your final grade (scheduled on Apr. 27th). This exam will be more comprehensive, in that it will include about 60% of questions related to the lecture materials covered during the final four sessions (Mar. 23rd – Apr. 15th) and about 40% of questions related to all the lecture materials covered during the term.

Lecture materials will include:
- Lectures (based on powerpoint slideshows that I will post on Moodle before each class)
- Required readings (i.e., academic journal articles; please see list below)
- Videos played in class (most of them will be available on Moodle)
- Possible in-class discussions (if/when applicable)

(2) Paper assignment – 20% of your final grade (format: word-processed APA-style literature review due on April 13th, length: 1,500-2,000 words, not including the References section):
This assignment is a good opportunity for you to go into the “social learning and culture” research in greater depth and to practice your writing skills.
FIRST, you should select from the literature two original data-based articles (not literature reviews) that present two complementary/different approaches to answering a particular question about social learning and culture (e.g., two papers using different methods to present evidence for culture in the same species, or two papers showing consistent or contrasting results about social learning mechanisms in two different species, or two papers presenting complementary results on different forms of cultural contents (e.g., material culture, social culture, sexual culture) in two different species or two groups of the same species, or two papers presenting different data-based implications of “social learning and culture” research on cognition). If you have a doubt about whether the papers you selected are suitable or not, feel free to send them to Chinthaka or me for approval or further advice.
SECOND, you should prepare a short (1,500-2,000 words) essay (a) providing some background information on the question being addressed, (b) explaining how these two approaches are complementary/different, and (c) suggesting future research directions to further investigate this question.
The itemized evaluation sheet for paper assignments will be available on Moodle.
(3) Oral presentation – 10% of your final grade
In this exercise, you are required to form a small group of students to prepare and give a short oral presentation about one data-based article taken from a list of suitable articles available on Moodle (with a reference number for each article). I made this list to provide you with a wide array of possible implications of “social learning and culture” research. The ideal presentation will consist of a short Powerpoint/Prezi slideshow summarizing the Introduction, Methods, Results, and Discussion sections of the article in about 15 minutes (timing will also be part of the evaluation!). A brief (5 minutes) in-class discussion may follow, depending on whether the class has questions or not.
The ideal group size is 4 students per group. However, I may allow groups ranging from 3 to 5 students. All group members will receive the same grade (whether you share the presentation time among group members or you select one member to present on behalf of the rest of the group), based on the assumption that you all equally participated in the preparation of the talk. From Jan. 13th at 10 am, an oral presentation schedule sheet will be pinned up next to my office door (C880, University Hall). Once your group is settled and you agreed on a presentation date, please come to my office and clearly write down the names of your group members and the reference number of the article you selected in one of the 16 options available, from Jan. 26th to Apr. 13th on a first come first served basis. Also, please make sure that the article you selected is not already mentioned on the schedule sheet. If so, please select another one. The deadline to have all the names and reference numbers written down on the schedule sheet is: Jan. 23rd (Friday) at 6 pm.
The itemized evaluation sheet for oral presentations will be available on Moodle.

Grading: The following ranges will be employed in assigning grades in this course:

- A+: 93.1 – 100
- A: 89.1 – 93.0
- A-: 85.1 – 89.0
- B+: 81.1 – 85.0
- B: 77.1 – 81.0
- B-: 73.1 – 77.0
- C+: 69.1 – 73.0
- C: 65.1 – 69.0
- C-: 61.1 – 65.0
- D+: 57.1 – 61.0
- D: 50.0 – 57.0
- F: < 49.9

In accordance with the University of Lethbridge Calendar:
A = Excellent, B = Good, C = Satisfactory, D = Poor, F = Fail

Lecture organization:

Classroom regulations:
(1) Please arrive to class on time. If you are late, sit at the back to minimize disruption. The instructor will be careful not to run overtime so please remain seated until the end of class.
(2) If you are disrespectful to other members of the class, you will be asked to leave.
(3) Please turn off your cell phones while in class (this falls under being disrespectful).
(4) Relevant interruptions and class participation are welcomed but please raise your hand in order to ask questions or to make comments. Questions that are emailed may also be discussed in class.

Exam regulations:
(1) Exams #1 and #2 will be returned to you and corrected versions of the exams will be posted on Moodle. Exam #3 will not be returned but can be reviewed during office hours or by appointment. If you feel that you were marked unfairly or that marks were missed on your exam,
please prepare a short statement explaining the problem. The question will then be re-graded and marks adjusted (up or down as is warranted) at the instructor’s discretion.

(2) No accommodation will be made for poor performance on exams. Additional work will not be assigned for those who wish to improve their grades.

(3) Students can write missed exams **only on two conditions**:  
   a) They must notify the instructor (jeanbaptiste.leca@uleth.ca) BEFORE the exam  
   b) They must provide an appropriate documentation (i.e. a medical certificate). Non-medical reasons for missed exams (e.g. a death in the family) must also be supported with appropriate documentation.  
These two conditions must be met before a make-up test can be scheduled. If not, missed exams automatically receive a score of zero.

**Academic accommodations:**  
It is the students’ responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodations and have not registered with the Accommodated Learning Centre, please contact them at 403-329-2766. Students who have not registered with the Accommodated Learning Centre are not eligible for formal academic accommodations. You are also required to discuss your need with your instructor no more than 14 days after the start of the course.
**Required readings:**


